

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 09:47:01 ; Search time 156.466 Seconds  
(without alignments) 12778.822 Million cell updates/sec

Title: US-09-049-696-18

Perfect score: 2813  
Sequence: 1 GAATCACAGGGAGATGTAC.....AAATAATCATTCATCCTTA 2813

Scoring table: IDENTITY NUC

Gapop 10.0 ; Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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2: /cgm2_6/p/ptodata/1/ina/5B_COMB.seq: *
3: /cgm2_6/p/ptodata/1/ina/6A_COMB.seq: *
4: /cgm2_6/p/ptodata/1/ina/6B_COMB.seq: *
5: /cgm2_6/p/ptodata/1/ina/pCTUS_COMB.seq: *
6: /cgm2_6/p/ptodata/1/ina/backfiles1.seq: *

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query %		Length	DB	ID	Description
		Match					
1	2807.2	99.8	3007	3	US-09-193-562D-27	Sequence 27, Appl	
2	2807.2	99.8	3007	4	US-10-055-412B-27	Sequence 27, Appl	
3	2743	97.5	2745	4	US-09-623-624-5	Sequence 5, Appl	
4	2743	97.5	2745	4	US-10-270-595-5	Sequence 5, Appl	
5	1743	62.0	2931	4	US-09-623-624-1	Sequence 1, Appl	
6	1743	62.0	2931	4	US-10-270-595-1	Sequence 1, Appl	
7	1512	53.8	1512	4	US-09-016-434-850	Sequence 850, App	
8	1308.6	46.5	3043	3	US-09-049-698-16	Sequence 16, Appl	
9	1308.6	46.5	3043	3	US-09-049-698-18	Sequence 18, Appl	
10	900.2	32.0	3317	3	US-09-193-562D-1	Sequence 1, Appl	
11	900.2	32.0	3317	4	US-10-055-412B-1	Sequence 1, Appl	
12	840.6	29.9	3022	3	US-09-193-562D-33	Sequence 33, Appl	
13	840.6	29.9	3022	4	US-10-055-412B-33	Sequence 33, Appl	
14	832.6	29.6	3418	3	US-09-193-562D-29	Sequence 29, Appl	
15	832.6	29.6	3418	4	US-10-055-412B-29	Sequence 29, Appl	
16	780.8	27.8	878	1	US-08-469-667-8	Sequence 8, Appl	
17	780.8	27.8	878	3	US-09-224-110-8	Sequence 8, Appl	
18	780.8	27.8	878	5	PCR-US95-07289-8	Sequence 8, Appl	
19	554.6	19.7	2784	4	US-09-643-597-168	Sequence 168, App	
20	554.6	19.7	2784	4	US-09-480-884A-168	Sequence 168, App	
21	554.6	19.7	2784	4	US-09-542-615A-168	Sequence 168, App	
22	554.6	19.7	2784	4	US-09-606-421B-168	Sequence 168, App	
23	554.6	19.7	2784	4	US-09-466-396A-168	Sequence 168, App	
24	554.6	19.7	2784	4	US-09-476-436A-168	Sequence 168, App	
25	554.6	19.7	2784	4	US-09-630-940B-168	Sequence 168, App	
26	552.2	19.6	2773	4	US-09-643-597-358	Sequence 358, App	
27	552.2	19.6	2773	4	US-09-630-940B-358	Sequence 358, App	

## ALIGNMENTS

## RESULT 1

US-09-193-562D-27

: sequence 2/, Applia  
: Patent No. 6309857

; GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 19617 0052

FILE REFERENCE: 18617.005;  
CURRENT APPLICATION NUMBER:

COMBUSTION REPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/

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; SEQ ID NO: 2
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; TYPE: DNA

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; ORGANISM:

US-09-193-562D-27

Query Match

Query Match 99.8%; Score 2807.2; DB 3: Length 3007.

Best Local Similarity

Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy	1	GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTCTGTGTTTCATCTTGATT	60
Db	23	GAATCACAGGAGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	82
Qy	61	CTTCACTTCTAGAGGGGGCCCTGAGTAATTCATCTCAGCTGACCAACAATGGCTAT	120
Db	83	CTTCACTTCTAGAGGGGGCCCTGAGTAATTCATCTCAGCTGACCAACAATGGCTAT	142
Qy	121	GAAGCATTTGCTGCAATCGACCCCAATGTGCCAGAGATGAACAATCTATTCACAA	180
Db	143	GAAGCATTTGCTGCAATCGACCCCAATGTGCCAGAGATGAACAATCTATTCACAA	202
Qy	181	ATAAGGACATGGTGACCCAGGACTCTCTATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	203	ATPAAAGHACATGGTGACCCAGGACTCTCTATCTGTTTGAAGCTACAGGAAGCGATT	262
Qy	241	TATTTCAAAAATGTTGCCATTTTCATTCCTGAAACATGGAAGCAAGGCTGACATGTG	300
Db	263	TATTTCAAAAATGTTGCCATTTTCATTCCTGAAACATGGAAGCAAGGCTGACATGTG	322
Qy	301	AGACAAACCTTGAGACCTCAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA	360
Db	323	AGACAAACCTTGAGACCTCAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA	382
Qy	361	GGTAATGATGAACCTTACATGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAAGGATC	420

Db 383 GGTAATGATGAACCCCTACACTGACAGATGGCAACTGTGTGAGAGAGGGTGAAGGATC 442  
Qy 421 CACCTCACTCTGATTTTCATTGCAAGGAAAAAGTTAGCTGAATATGGACCAAGGTAGG 480  
Db 443 CACCTCACTCTGATTTTCATTGCAAGGAAAAAGTTAGCTGAATATGGACCAAGGTAAG 502  
Qy 481 GCATTTGTCCATGAGTGGGCTCATCTACATGCGGAGATATTGACGAGTACATAATGAT 540  
Db 503 GCATTTGTCCATGAGTGGGCTCATCTACATGCGGAGATATTGACGAGTACATAATGAT 562  
Qy 541 GAGAAATTTCTACTTATCCAAATGGAGAAATACAAGCAGTAAGATGTTTCAGCAGGTATTACT 600  
Db 563 GAGAAATTTCTACTTATCCAAATGGAGAAATACAAGCAGTAAGATGTTTCAGCAGGTATTACT 622  
Qy 601 GGTACAAATGTAGTAAGAAGTGTGAGGAGGAGCTGTTACACCAAAAGATGCAATTC 660  
Db 623 GGTACAAATGTAGTAAGAAGTGTGAGGAGGAGCTGTTACACCAAAAGATGCAATTC 682  
Qy 661 AATAAAGTAAAGGACTATGAAAAAGATGTGATTTGTTCTCCAAATCCCGCCAGAGG 720  
Db 683 AATAAAGTAAAGGACTATGAAAAAGATGTGATTTGTTCTCCAAATCCCGCCAGAGG 742  
Qy 721 GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
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Qy 781 CAAAACCAACAAAGAAAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCGAAGCACA 840  
Db 803 CAAAACCAACAAAGAAAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCGAAGCACA 862  
Qy 841 TGGGAAGTGAATCGGTGATTTCTGAGGACTTTAAGAAACCACTCCCTATGACACACAGCCA 900  
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Qy 901 CCAATCCCACTTCTCATTTGTCAGATTTGACAAAGAAATGTTGTTGTTAGTCTCTTGAC 960  
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Qy 961 AAATCTGGAAGCATGCGACTGTTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1020  
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Qy 1201 TTTTACTGTGATTAGGAATAATCCAACTGATGGATCTGAAATGTCGTGCTGACGGAT 1260  
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Qy 1261 GGGGAACACACACTATAAGTGGTGTCTTAAACGAGGTCAAAACAAAGTGGTGCATCATC 1320  
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Qy 1321 CACACAGTCTGTTGGGCGCTTTCGAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1380  
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Qy 1381 GGAGTTTACAGACATATGTTTCAGATCAAGTTACAGAACTAGGCTTCATTGATGCTTTT 1440  
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Qy 1441 GGGGCGCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500  
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Qy 1501 GGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAAGTGTGTTGGACAGCACCGTG 1560  
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Qy 1561 GGAAGAGACACTTTGTTTCTTATCACCTGGGCAACGAGGCTCCCAAAATCTTCTCTGG 1620  
Db 1583 GGAAGAGACACTTTGTTTCTTATCACCTGGGCAACGAGGCTCCCAAAATCTTCTCTGG 1642  
Qy 1621 GATCCAGTGAACAGAGCAAGGTGGCTTTGTAGTGACAAAAACACCAAAATGSCCTAC 1680  
Db 1643 GATCCAGTGAACAGAGCAAGGTGGCTTTGTAGTGACAAAAACACCAAAATGSCCTAC 1702  
Qy 1681 CTCCAAATCCCAAGGACTTAAAGTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCA 1740  
Db 1703 CTCCAAATCCCAAGGACTTAAAGTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCA 1762  
Qy 1741 CAAACCTTTGACCCCTGACTGTCACTGCGGTGCTCAATGTCTACCTGCTCCCAATTACA 1800  
Db 1763 CAAACCTTTGACCCCTGACTGTCACTGCGGTGCTCAATGTCTACCTGCTCCCAATTACA 1822  
Qy 1801 GTGACTTTCCAAAACGAAACAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCA 1860  
Db 1823 GTGACTTTCCAAAACGAAACAGGACACAGCAAAATTTCCCGAGCCCTCTGGTAGTTTATGCA 1882  
Qy 1861 AATATTGCGCAAGAGGCTTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 1920  
Db 1883 AATATTGCGCAAGAGGCTTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 1942  
Qy 1921 GTGAATGGAATAACAGTTACCTTTGAACTACTGTTGAACTACTGAGTATGAGGAGGCTGCTGATCT 1980  
Db 1943 GTGAATGGAATAACAGTTACCTTTGAACTACTGTTGAACTACTGAGTATGAGGAGGCTGCTGATCT 2002  
Qy 1981 AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACACGAATGTGATGATACAGT 2040  
Db 2003 AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACACGAATGTGATGATACAGT 2062  
Qy 2041 GTAAAGTCCGGCTCTGGGAGGAGTTAAACGAGCCAGACGAGAGTGTATACCCAGCAG 2100  
Db 2063 GTAAAGTCCGGCTCTGGGAGGAGTTAAACGAGCCAGACGAGAGTGTATACCCAGCAG 2122  
Qy 2101 AGTGGAGCACTGTACATACCTGGCTGGATTTGAGATGATGAATACAAATGGATCCACCA 2160  
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Qy 2161 AGACCTGAAATTAATAAGGATGATTTCAACAACGAAGTGTGTTTTCAGCAGAAATCC 2220  
Db 2183 AGACCTGAAATTAATAAGGATGATTTCAACAACGAAGTGTGTTTTCAGCAGAAATCC 2242  
Qy 2221 TCGGGAGGCTCATTTTGTGGCTTCTGATGTCCCAAAATGCTCCCATACCTGATCTTCCCA 2280  
Db 2243 TCGGGAGGCTCATTTTGTGGCTTCTGATGTCCCAAAATGCTCCCATACCTGATCTTCCCA 2302  
Qy 2281 CTGCGCAAAATACCCGACTGAAGCGGAAATTTACCGGGGCGAGTCTCAATTAATCTGACT 2340  
Db 2303 CTGCGCAAAATACCCGACTGAAGCGGAAATTTACCGGGGCGAGTCTCAATTAATCTGACT 2362  
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Qy 2401 AGTACAAGTATCTTGTATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
Db 2423 AGTACAAGTATCTTGTATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2482  
Qy 2461 GCTCTCATCCAAAGGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAAAATCT 2520  
Db 2483 GCTCTCATCCAAAGGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAAAATCT 2542  
Qy 2521 ACTTTTCAAAATGGCAGAGATCTTTTTCATTTGCTATTCAGGCTGTGATGAAGGTGATCTG 2580  
Db 2543 ACTTTTCAAAATGGCAGAGATCTTTTTCATTTGCTATTCAGGCTGTGATGAAGGTGATCTG 2602



QY	2591	AAATCAGAAATATCAACATTCGACGAGTATCTTTGTTTATTCCTCACAGACTCCGCCA	2641
Db	2603	AAATCAGAAATATCAACATTCGACGAGTATCTTTGTTTATTCCTCACAGACTCCGCCA	2662
QY	2641	GAGACACTAGTCTGATGAAACGCTGCTCCCTTGCTTAATTCATATCAACAGCACC	2700
Db	2663	GAGACACTAGTCTGATGAAACGCTGCTCCCTTGCTTAATTCATATCAACAGCACC	2722
QY	2701	ATTCCTGGCATTCAATTTTAAAAAATATGTGGAAGTGGATAGGAGAACTGCGAGCTGCA	2760
Db	2723	ATTCCTGGCATTCAATTTTAAAAAATATGTGGAAGTGGATAGGAGAACTGCGAGCTGCA	2782
QY	2761	ATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAATATTCATTCATCCTT	2812
Db	2783	ATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAATATTCATTCATCCTT	2834
RESULT 2			
US-10-055-412B-27			
; Sequence 27, Application US/10055412B			
; Patent No. 6692939			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedict U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; FILE REFERENCE: 18617.0058			
; CURRENT APPLICATION NUMBER: US/10/055,412B			
; CURRENT FILING DATE: 2001-10-29			
; PRIOR APPLICATION NUMBER: US/09/193,562			
; PRIOR FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 27			
; LENGTH: 3007			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-055-412B-27			
Query Match 99.8%; Score 2807.2; DB 4; Length 3007;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
QY	1	GAATCACAGGGAGATGTACAGCAATGGGCCCATTTAAGAGTTCTGTGTTCACTTGATT	60
Db	23	GGAAATCACAGGGAGATGTACAGCAATGGGCCCATTTAAGAGTTCTGTGTTCACTTGATT	82
QY	61	CTTCACCTCTAGAAGGGCCCTGAGTAATTCATCATTCAGCTGACACAGCAATGGCTAT	120
Db	83	CTTCACCTCTAGAAGGGCCCTGAGTAATTCATCATTCAGCTGACACCAATGGCTAT	142
QY	121	GAAGGCATTGTCGTTGCCAATCGACCCCAATGTGCCAGAGATGAACAACATTCATTCACAA	180
Db	143	GAAGGCATTGTCGTTGCCAATCGACCCCAATGTGCCAGAGATGAACAACATTCATTCACAA	202
QY	181	ATAAAGGACATGGTGAACCCAGGATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTT	240
Db	203	ATAAAGGACATGGTGAACCCAGGATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTT	262
QY	241	TATTTCAAAAATGTTGCCCATTTGATTCTCTGAAACATGGAACAGCAAGGCTGACTATGTG	300
Db	263	TATTTCAAAAATGTTGCCCATTTGATTCTCTGAAACATGGAACAGCAAGGCTGACTATGTG	322
QY	301	AGACAAAACCTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	360
Db	323	AGACAAAACCTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	382
QY	361	GGTAATGATGAACCTTACACTGACGAGATGGGCACTGTGGAGAGAAAGGTTGAAGGATC	420
Db	383	GGTAATGATGAACCTTACACTGACGAGATGGGCACTGTGGAGAGAAAGGTTGAAGGATC	442
QY	421	CACCTCACCTCCTGATTTCATTCAGGAAAAAAGTTAGCTGATATGGACCAACAGGTAGG	480



121 CCACATGTGCGAGAGATGAACACTCATTCAACAAATAAAGACATGTTGACCCAGCA 180  
122 |||||  
205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAATAATGTTGCAATTTTG 264  
181 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAATAATGTTGCAATTTTG 240  
265 ATTCTGAAACATGGAAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACCTCAAA 324  
241 ATTCTGAAACATGGAAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACCTCAAA 300  
325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384  
301 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 360  
385 CAGATGGGCAACTGTGGAGAGAGGTAAGAGATCCACTCCTCCTGATTTTCAATGCA 444  
361 CAGATGGGCAACTGTGGAGAGAGGTAAGAGATCCACTCCTCCTGATTTTCAATGCA 420  
445 GGAATAAAGTTAGCTGAATATGGAACCAAGGTAGGGCAATTTGTCCATGAGTGGGCTCAT 504  
421 GGAATAAAGTTAGCTGAATATGGAACCAAGGTAGGGCAATTTGTCCATGAGTGGGCTCAT 480  
505 CTACGATGGGAGTATTTGAAGATGACCAATATGATGAGAAATTTCTACTTATCCAAATGGA 564  
481 CTACGATGGGAGTATTTGAAGATGACCAATATGATGAGAAATTTCTACTTATCCAAATGGA 540  
565 AGAATACAAGCAGTAGAATGTTTACAGAGTATTTACTGTGACAAATGTAGTAAGAGTGT 624  
541 AGAATACAAGCAGTAGAATGTTTACAGAGTATTTACTGTGACAAATGTAGTAAGAGTGT 600  
625 CAGGAGGAGCTGTTACACCAAAAGATGCACATTCATTAAGTAACAGGACTCATGAA 684  
601 CAGGAGGAGCTGTTACACCAAAAGATGCACATTCATTAAGTAACAGGACTCATGAA 660  
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661 AAAAGATGTGATTTGTTCTCCAAATCCCGCAGACGGAAGGCTTCTATAATGTTTGA 720  
745 CAACATGTTGATTTCTATAGTTGAATTCGTGACAGCAAAACCAACCAAAAGAGCTCCA 804  
721 CAACATGTTGATTTCTATAGTTGAATTCGTGACAGCAAAACCAACCAAAAGAGCTCCA 780  
805 AACAGCAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATCCGTTGATTTCTGAG 864  
781 AACAGCAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATCCGTTGATTTCTGAG 840  
865 GACTTTAAGAAACCACTCTCTATGACAAACAGGCAACCAATCCCACTTCTCAATGCTG 924  
841 GACTTTAAGAAACCACTCTCTATGACAAACAGGCAACCAATCCCACTTCTCAATGCTG 900  
925 CAGATTGCAACAAAGAAATGTTGTTTGTAGTCTTGCATGCAACCAATCCCACTTCTCAATGCTG 984  
901 CAGATTGCAACAAAGAAATGTTGTTTGTAGTCTTGCATGCAACCAATCCCACTTCTCAATGCTG 960  
985 AACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCAAGACAGTTGAGCTG 1044  
961 AACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCAAGACAGTTGAGCTG 1020  
1045 GGGTCTGGGTTGGGATGGTGACATTTGACAGTCTGCCATGTPACAAAGTGAACCTCATA 1104  
1021 GGGTCTGGGTTGGGATGGTGACATTTGACAGTCTGCCATGTPACAAAGTGAACCTCATA 1080  
1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTTACCTGACAGAGCTTCA 1164  
1081 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTTACCTGACAGAGCTTCA 1140  
1165 GGAGGAGCTGCTCATCTGACGCGGCTTTCGATCGGCATTTTACTGTGATTAGGAAGAATAT 1224  
1141 GGAGGAGCTGCTCATCTGACGCGGCTTTCGATCGGCATTTTACTGTGATTAGGAAGAATAT 1200  
1225 CCAACTGATGGATCTGAAATTTGCTGCTGACCGGATGGGAAGACACACTATAAGTGGG 1284  
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1201 CCACATGTGAGATCTGAAATTTGTGCTGATCGGATGGGGAAGACAACTATAAGTGGG 1260  
1285 TGCTTTAACGAGGTCAAAACAAAGTGGTGCATCATCACACAGTCTGCTTTGGGGCCCTCT 1344  
1261 TGCTTTAACGAGGTCAAAACAAAGTGGTGCATCATCACACAGTCTGCTTTGGGGCCCTCT 1320  
1345 GCAGCTCAAGAACTAGAGGAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTCA 1404  
1321 GCAGCTCAAGAACTAGAGGAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTCA 1380  
1405 GATCAAGTTTCAAGCAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGA 1464  
1381 GATCAAGTTTCAAGCAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGA 1440  
1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAACCTCTCAGAACACGCGAG 1524  
1441 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAACCTCTCAGAACACGCGAG 1500  
1525 TGGATGAATGGCA CAGTGTATCTGTGACAGCACCGTGGGAAAGGACACITTTGTTCTTATC 1584  
1501 TGGATGAATGGCA CAGTGTATCTGTGACAGCACCGTGGGAAAGGACACITTTGTTCTTATC 1560  
1585 ACCTGACAAACGACGCTCCCAAAATCCCTTCTCTGGGATCCAGTGGGACAGAAAGGT 1644  
1561 ACCTGACAAACGACGCTCCCAAAATCCCTTCTCTGGGATCCAGTGGGACAGAAAGGT 1620  
1645 GCTTTGTAGTGGACAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTTAAG 1704  
1621 GCTTTGTAGTGGACAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTTAAG 1680  
1705 GTTGGCACTTGGAAATACAGTCTGTGACAGCAAGCTCACAAACCTTGACCTGCTCAGG 1764  
1681 GTTGGCACTTGGAAATACAGTCTGTGACAGCAAGCTCACAAACCTTGACCTGCTCAGG 1740  
1765 TCCCGTGGCTCCAAATGCTACCTCCCAATTAACAGTACTTCCAAATCCAGGCAATTCCTTAAG 1824  
1741 TCCCGTGGCTCCAAATGCTACCTCCCAATTAACAGTACTTCCAAATCCAGGCAATTCCTTAAG 1800  
1825 ACCAGCAAAATCCCAGCCCTCTGCTGATTTTATGCAAAATATTCGCCAAGGAGCTTCCCA 1884  
1801 ACCAGCAAAATCCCAGCCCTCTGCTGATTTTATGCAAAATATTCGCCAAGGAGCTTCCCA 1860  
1885 ATTTCTAGGGCCAGTGTCAAGCCCTGATTTGAATGAGTGAATGAAATAACAGTACTTCTG 1944  
1861 ATTTCTAGGGCCAGTGTCAAGCCCTGATTTGAATGAGTGAATGAAATAACAGTACTTCTG 1920  
1945 GAACTACTGATTAATGAGCAGAGTGTGATGCTACTAAGGATGAGGCTGCTACTCAAGG 2004  
1921 GAACTACTGATTAATGAGCAGAGTGTGATGCTACTAAGGATGAGGCTGCTACTCAAGG 1980  
2005 TATTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2064  
1981 TATTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2040  
2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCTGTATACATCCTTGGC 2124  
2041 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCTGTATACATCCTTGGC 2100  
2125 TGGATTGAGAAATGATGAATACAAATGGAATCCACAGACTGAAATTAATTAAGGATGAT 2184  
2101 TGGATTGAGAAATGATGAATCCAAATGGAATCCACAGACTGAAATTAATTAAGGATGAT 2160  
2185 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAATCTCTGGGAGGCTCATTTTGGGCTTCT 2244  
2161 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAATCTCTGGGAGGCTCATTTTGGGCTTCT 2220  
2245 GATGTCCCAAAATGCTCCATACCTGATCTCTTCCCACTGGGCAAAATCACCGACCTGAAG 2304  
2221 GATGTCCCAAAATGCTCCATACCTGATCTCTTCCCACTGGGCAAAATCACCGACCTGAAG 2280  
2305 GCGGAAATTCACGGGGGAGCTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364  
2281 GCGGAAATTCACGGGGGAGCTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2340

2365 GACCATGGAACAGCTCAAGTATATATCATTCGAATAAGTACAGATTTCTTGATCTCAGA 2424  
2341 GACCATGGAACAGCTCAAGTATATATCATTCGAATAAGTACAGATTTCTTGATCTCAGA 2400  
2425 GACAAGTTCAATGAATCTCTTCAAGTGAATATCTCTCTCATCCCAAGGAAGCCAAAC 2484  
2401 GACAAGTTCAATGAATCTCTTCAAGTGAATATCTCTCTCATCCCAAGGAAGCCAAAC 2460  
2485 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTTACTTTTGAATAATGGCACAGATCTT 2544  
2461 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTTACTTTTGAATAATGGCACAGATCTT 2520  
2545 TTCAATTCCTATTCAGGCTGTTGATGAAGTCTGAATCTGAATCAGAAAATCAACATTTGCA 2604  
2521 TTCAATTCCTATTCAGGCTGTTGATGAAGTCTGAATCTGAATCAGAAAATCAACATTTGCA 2580  
2605 CGAGTATCTTTGTTTATTCCTCCAGACTCCGCGAGAGACACCTAGTCTCTGATGAACG 2664  
2581 CGAGTATCTTTGTTTATTCCTCCAGACTCCGCGAGAGACACCTAGTCTCTGATGAACG 2640  
2665 TCTGCTCCTTGCTCTAATATCAATCAACAGCACCATTCTCTGGCAATTCACATTTTAAAA 2724  
2641 TCTGCTCCTTGCTCTAATATCAATCAACAGCACCATTCTCTGGCAATTCACATTTTAAAA 2700  
2725 ATTATGTGGAAGTGTGATAGGAACCTGAGCTGTCAATAGCCTAG 2769  
2701 ATTATGTGGAAGTGTGATAGGAACCTGAGCTGTCAATAGCCTAG 2745

RESULT 4  
US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 97.5%; Score 2743; DB 4; Length 2745;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 25 ATGGGGCCATTTAAGAGTCTCTGTGTTCACTCTGATTTCTTACCTTTCTAGAGGGGCCCTG 84  
DB 1 ATGGGGCCATTTAAGAGTCTCTGTGTTCACTCTGATTTCTTACCTTTCTAGAGGGGCCCTG 60  
QY 85 AGTAATTTCACTCATTAGCTGAAACAACAATGGCTATGAAGCATTTGCTTGCATTCGAC 144  
DB 61 AGTAATTTCACTCATTAGCTGAAACAACAATGGCTATGAAGCATTTGCTTGCATTCGAC 120  
QY 145 CCCAATGTGCAGAAAGATGAAACAACCTATTCAACAATAAAGGACATGGTCAACGAGCA 204  
DB 121 CCCAATGTGCAGAAAGATGAAACAACCTATTCAACAATAAAGGACATGGTCAACGAGCA 180  
QY 205 TCTCTGATCTGTTTGAAGCTTACAGGAAGCGATTTTATTTTCAAAATGTTTGCATTTTG 264  
DB 181 TCTCTGATCTGTTTGAAGCTTACAGGAAGCGATTTTATTTTCAAAATGTTTGCATTTTG 240  
QY 265 ATTCTGAAACATGGAAGAGCAAGGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 324  
DB 241 ATTCTGAAACATGGAAGAGCAAGGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 300  
QY 325 AATGCTGATGTTTGTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 384  
DB 301 AATGCTGATGTTTGTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 360  
QY 385 CAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCCTGATTTTCAATTCGA 444  
DB 361 CAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCCTGATTTTCAATTCGA 420  
QY 445 GGAAAAAGTTAGCTGAATATGAGCAACAAGTAGGGCAATTTGTCCATGAGTGGGCTCAT 504  
DB 421 GGAAAAAGTTAGCTGAATATGAGCAACAAGTAGGGCAATTTGTCCATGAGTGGGCTCAT 480  
QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTCCAAATGA 564  
DB 481 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTCCAAATGA 540  
QY 565 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTACTGGTACAAATGTAGTAAGAGTCT 624  
DB 541 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTACTGGTACAAATGTAGTAAGAGTGT 600  
QY 625 CAGGAGGCGAGCTGTACACCAAAAGATGACATTAATAAGTAAACAGACTCTATGAA 684  
DB 601 CAGGAGGCGAGCTGTACACCAAAAGATGACATTAATAAGTAAACAGACTCTATGAA 660  
QY 685 AAAGGATGTGAGTTTGTCTCCAAATCCCGCAGAGGAGAGGCTTCTAATATGTTTGA 744  
DB 661 AAAGGATGTGAGTTTGTCTCCAAATCCCGCAGAGGAGAGGCTTCTAATATGTTTGA 720  
QY 745 CAAATGTTGATTTATAGTTGAATTTCTGACAGAAACCAACAACAAGAGCTCCA 804  
DB 721 CAAATGTTGATTTATAGTTGAATTTCTGACAGAAACCAACAACAAGAGCTCCA 780  
QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGCAGATGGAAGTGTATCCGATTTCTGAG 864  
DB 781 AACAGCAAAATCAAAATGCAATTTCCGAGCAGATGGAAGTGTATCCGATTTCTGAG 840  
QY 865 GACTTTTAAAGAAACCACTCTCTATGCAACAACAGCCCAAAATCCCACTTCTCATTTGCTG 924  
DB 841 GACTTTTAAAGAAACCACTCTCTATGCAACAACAGCCCAAAATCCCACTTCTCATTTGCTG 900  
QY 925 CAGATTGGACAAAGAAATTTGTGTTTGTAGTCTTGAACAATCTGGAAGAGCTGGGACTGGT 984  
DB 901 CAGATTGGACAAAGAAATTTGTGTTTGTAGTCTTGAACAATCTGGAAGAGCTGGGACTGGT 960  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCGACCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
DB 961 AACCGCTCAATCGACTGAATCAAGCAGGCGACCTTTTCTGCTGCAGACAGTTGAGCTG 1020



;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/702,110  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/702,168  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/980,872  
;; PRIOR FILING DATE: 1997-12-01  
;; NUMBER OF SEQ ID NOS: 18  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 1  
;; LENGTH: 2931  
;; TYPE: DNA  
;; ORGANISM: Mus musculus  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 62.0%; Score 1743; DB 4; Length 2931;  
Best Local Similarity 77.8%; Pred. No. 0;  
Matches 2161; Conservative 0; Mismatches 595; Indels 21; Gaps 4;

Qy 25 ATGGGGCCATTAAAGATCTCTGTTTCATCTTGATTTCTTACCTTCTAGAAAGGGCCCTG 84  
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Qy 8 ATGGATCTTTGAAGATCCCTGCTCTCTCTTGATCTTCCACCTTCTGGAAGGATCTG 67  
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Qy 85 AGTAATTCACCTCATTGAGCTGAACAAATGGCTATGAAGGATTTGCTTGGCAATCGAC 144  
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Qy 68 AGTGAGTCCCTCATCCAACTGAACAAACACGCTATGAGGGCATCGTCATGCCATAGAC 127  
Db |||||  
Qy 145 CCCATGTGCCAGAGATGAACACTCATTCAACAAATTAAGGACATGGTGACCCAGCA 204  
Db |||||  
Qy 128 CACGACGTGCCGGAAGATGAAGCCCTCATTAACACATAAAGGACATGGTGACTCAGGCC 187  
Db |||||  
Qy 205 TCTCTGTATCTCTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTTG 264  
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Qy 188 TCTCCATACCTGTTGAAGCTACAGGAAAGATTTTACTTCAAAAATGTTGCCATTTTG 247  
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Qy 265 ATTCTGTAACATGAAGAACAAAGGCTGACTATGTGAGACCCAAACTTGAAGACCTACAAA 324  
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Qy 248 ATTCGGAGAGCTGGAAGCAAAAGCCTGAATATACAGAGCCAAACTTGAACCTTCAAA 307  
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Qy 325 AATGCTGATGTTCTGGTCTGAGTCTACTCTCCAGGTAAATGATGAACCTACACTGAG 384  
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Qy 308 AACGCTGATGCTCTGTATCAACACACGCTCTAGGCAATGATGAGCCCTACACGAA 367  
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Qy 385 CAGATGGGCAACTGTGGAGAGAGGTGAAGGATCCACTCACTCTGATTTCAATGCA 444  
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Qy 368 CATATAGGAGCATGTGGAGAAAGGGATCAGGAATTCACCTGACTCTGACTTCTTAGCA 427  
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Qy 445 GGAATAAGTTAGCTGAATATGGAACCAAGGTAGGGCATTTGTCCATGAGTGGGCTCAT 504  
Db |||||  
Qy 428 GGAATAAGCTGACTCAGTATGGGCCACAGACAGGACCTTTGTCCATGAGTGGGCTCAC 487  
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Qy 505 CTACGATGGGAGTATTTCCAGAGTACAATATGATGAATAATTTCTATTATCCAAATGA 564  
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Qy 488 TTCCGATGGGAGTGTATTAATGAATACAAACAGCAGAGAGGTTCTATCTATCCAAAGA 547  
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Qy 565 AGAATAACAAGCAGTAAAGATGTTCCAGCAGGTATTTACTGGTACAAATGATGTAAGAAGTGT 624  
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Qy 548 AAACCCCAAGCAGTGAAGTGTTCAGCAGCCATTTACCGGTAAATAATCAAAGTTCGTCGGTGC 607  
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Qy 625 CAGGGAGGAGCTGTTTACACCAA---AAGATGCACATTCATTAAGATTAACAGACTCTAT 681  
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Qy 608 CAGGGAGGAGTGTATCTACTAAACGGAAGTGTATTCGACAGATTAACGGAGCTGTAT 667  
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Qy 682 GAAAGAGGATGTCAGTGTGTTCTCCCAATCCGCGCAGAGAGGCTTCTATAATGTTT 741  
Db |||||  
Qy 668 AAGACAAATTTGTTATTTGTACAGATCCACACCAAAACGAGAGGCTTCCAATCATGTTT 727  
Db |||||  
Qy 742 GCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGCT 801  
Db |||||  
Qy 728 AACCAAAATATCAATTTCTGTGGTTGAATTTCTGTACAGAAATAATCACAATCAAGAGCC 787  
Db |||||

Qy 802 CCBAACAAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCCGTGATCT 861  
Db |||||  
Qy 788 CCAATGACCAAAACCAACGATGCAATCTCGAAGCAGCTGGGAAGTGCATCCAGGAATCT 847  
Db |||||  
Qy 862 GAGGACTTTAAGAAACCACTCTCTATGACAAACAGCACCAAAATCCCATCTTCTCATG 921  
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Qy 848 GAGGACTTCAAGCAAAACCACTCCCATGACAGCCAGCCACCTGACCCACCTTCTCACTG 907  
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Qy 922 CTGCAGATTGGAACAAATTTGTTGTTAGTCTTGCACAAATCTGGAAGCATCGCACT 981  
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Qy 908 CTGCAAAATTGACAAAGAAATTTGTGCTTAGTTCTTGATAGTCCGGAGCATGCTGAAC 967  
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Qy 982 GGTAAACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGACACAGTTGAG 1041  
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Qy 968 GATGATCGTCTTAACCAAGAAATCAGCAAGCCGGCTTTTCTGCTGACACTGTGAG 1027  
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Qy 1028 CAGGGATCTGGGTCGGGATGGTGACCTTTGACAGTGTGCTATGTACAAAGCGAACTC 1087  
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Qy 1088 AACAGATTAACAGTGGTGTGACAGAGATCTGCTGATCAAGCACTTHACCACAGTATCT 1147  
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Qy 1162 TCAGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCAATTTACTGTGATTAGGAAGAAA 1221  
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Qy 1148 GCAGAGGAGCATCTATATGCTCTGGCTTCGGACAGCATTTACAGTGATAAAGAAAG 1207  
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Qy 1342 TCTGAGCTCAAGAACTAGAGAGGTGTCCTCAAAATGACAGGAGTTTACAGACATATGCT 1401  
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Qy 1328 GCTGCGCTTAAGAGCTTGAAGAGCTGTCCTCAAAATGACAGGAGGCTTCAGACATATCT 1387  
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Qy 1402 TCAGATCAAGTTTCAAGCAATGGCCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAT 1461  
Db |||||  
Qy 1388 TCGGATCAGTTTCAAGCAATGGTCTTGTGATGCTTTTCGACGACTCTCTCTCAGGAAT 1447  
Db |||||  
Qy 1462 GGAGTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGC 1521  
Db |||||  
Qy 1448 GCGGCGATCGCTCAGACTCCCATCCAGCTGGAGAGCAGGGAGTTAATCTCCAGATAC 1507  
Db |||||  
Qy 1522 CAGTGGATGAATGGCACAGTGCATCGTGAACAGCACCGTGGGAAAGGACATTTGTTTCT 1581  
Db |||||  
Qy 1508 CAATGATGAATGGCTCAGTGATCGTGGACAGCTCGTGGGCAAGSACACCTTGTTCCT 1567  
Db |||||  
Qy 1582 ATCACTGGAACAGGAGGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGAGCA 1641  
Db |||||  
Qy 1568 ATCACTGGAACAGGCTCTCTCTCAATAATTTATCTGGATCCAGCGAGTGGAAACA 1627  
Db |||||  
Qy 1642 GGTGCTTTGATGACAAACCAAAATGGCTACTCCAAATCCAGGCAATGCT 1701  
Db |||||  
Qy 1628 AATGTTTATTAATGACAAACCACTAAGTGGCTACTCTCCAGTCCAGGACGGCT 1687  
Db |||||  
Qy 1702 AAGTTTGGCACTTGGAAATPACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTG 1761  
Db |||||  
Qy 1688 AAGTTTGGCTTTTGGAAATPACAGCTTCAAGCGAGCTCAGAGCTCTCAGCTTGACTGTC 1747  
Db |||||  
Qy 1762 AGTCCCGTGGTCCATGCTACCTGCTCCAAATTAACAGTGCATCTTCCAAACGAAACAG 1821  
Db |||||  
Qy 1748 ACCTCCCGTGCAGCAAGTGTCTACTGCTCTTATACAGTGCACCCGGTAGTGAATAG 1807  
Db |||||  
Qy 1822 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTTGCCAAGGAGCTCC 1881  
Db |||||  
Qy 1808 AACACAGGAAATTTCCAGCCCTGTAAACAGTGTATGCAAGCATTCGCCAAGGAGCTCG 1867  
Db |||||



1882 CCAATTTCTCAGGCCAGTGTGTCAGCCCTGATTAATCAATGAAATGAAAAACAGTTACC 1941  
1868 CCTATTCTCAGGCCAGCGTCAAGCCCTGATTAATGAAATCTGTAATGAAAAACAGTTACC 1927  
1942 TTGGAATCTACTGATTAATGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCA 2001  
1928 CTGGAATTTACTGATTAACGAGCAGGTGCGCATGCCACCAAGAAATGATGGTGTCTACTCA 1987  
2002 AGGTATTTTCAACACTTATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGA 2061  
1988 AGGTTTTTTTACAGCTTTTGATGCAATGGTAGATACAGCTTAAATATGAGGCTCTGGGA 2047  
2062 GAGTTTAAACGAGCCAGACGAGAGTATACCCAGCAGAGTGGAGCAGCTGTACATACCT 2121  
2048 GGAGTCACTTTCAGACAGACAGAGCAGCAGCTCCGAGACAGAGCCATGTACATAGAT 2107  
2122 GCGTGAATGAGTATGATCAATCAATGGAATCCACCAAGCCTGAAATTAATAGGAT 2181  
2108 GCGTGAATGAGTATGGAATGAAGTGAAGTGAACCCACCAAGCCTGAAACTAGTT----- 2162  
2182 GATGTTTCAACACCAAGCAAGTGTGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGGCT 2241  
2163 -ATGTTTCAAGACAGCAGCTGTGCTTCAGCAGACATCTTCAGGGGATGCTTTGTGGCC 2221  
2242 TCTGATGTC-----CAATGCTCCCATACCTGATCTTCTCCACCTGGCCAAATCACCGAC 2298  
2222 ACCAATGTCCCGCAGCAGCTCCCATCTCTGACCTTTTCCACCTGTCAATCACTGAC 2281  
2299 CTGAAGGGGAAATTCAGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGAT 2358  
2282 CTGAAGGCCAGCATCCAGGGGAGAACCTGGTGAATCTGACGTGACGCTCCTGGGAT 2341  
2359 GATTATGACCTGGAACAGCTCACAGTATATCAATTCGAATAGTACAGTATTTCTGAT 2418  
2342 GACTACGACACCGGAGAGCTTCCAACTACATCCTCCGAATGAGCAGCAGTATCTGAT 2401  
2419 CTCAGACAGATTCATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAGGAA 2478  
2402 CTCAGGGACCACTTCAACACCTCACTCCCAAGTGAACACTACGGTCTTATCCCAAGAG 2461  
2479 GCCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAAAACATTAATTTGAAATGGCACA 2538  
2462 GCCAGCTCTGAGGAAATCTTTGAGTTGAATCTGGGAGGCAACACTTTTGAATGGCACA 2521  
2539 GATCTTTTCAATGCTATTCAGCTGTTGATAGGTGCTGATCTGAATCAGAAATATCCAC 2598  
2522 GATATCTTATGCTATCCAGGCTGTGATAGTCCAACTGAAATCAGAAATCTCCAAAC 2581  
2599 ATTGCAGAGTATCTTTGTTTATTTCTTCCACAGACTCCGCCAGAGACACCTAGTCTGAT 2658  
2582 ATTGCAGGGTGTCTGTGTTTCTATCCCGCTCAG-----GAGCGCCCATTTCCGAA 2632  
2659 GAAAGCTCTGCT 2718  
2633 GACTCAACTCCCT 2692  
2719 TTAATAATTTATGTAAGTGTGATAGGAGAACTGCGAGCTGTCAATAGCTAGGCTGTAAT 2778  
2693 CTGAAGATAATGTGAATGGTGGTGGGAAATGCGGTGACACTAGGTTTGCATGAAT 2752  
2779 TTTGTCAGATAATAAA 2795  
2753 TTCAGGCAAGAAATCAA 2769

RESULT 6  
US-10-270-595-1  
; Sequence 1, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-10-270-595-1

Query Match 62.0%; Score 1743; DB 4; Length 2931;  
Best Local Similarity 77.8%; Pred. No. 0;  
Matches 2161; Conservative 0; Mismatches 595; Indels 21; Gaps 4;  
QY 25 ATGGGGCCATTTAAGAGTCTGCTGTTCTATCTTGAATCTTACCTTTAGAAAGGGCCCTG 84  
Db 8 ATGGAATCTTTGAAGAGTCTGCTGTTCTTCTTGTATCTCTCCACCTTCTGGAAGAGTCTG 67  
QY 85 AGTAATTCACCTCATTCACTGAGTGAACAACTAATGGCTATGAAGCATTGCTGTAATCGAC 144  
Db 68 AGTGAGTCCCTCATCCAACTGAACAACTAATGGCTATGAAGCATTGCTGTAATCGAC 127  
QY 145 CCCAATGTGCCAGAAAGTGAACAACTCATTCAACAAATAAAGGACATGGTGACCCAGGCA 204  
Db 128 CACGACGTGCCGGAAGATGAAGCCCTCATTCAACACATAAAGGACATGGTGACCCAGGCA 187  
QY 205 TCTCTGATCTGTTGAGCTACAGGAAGGATTTTATTTCAAAAATGTTGCCATTTG 264  
Db 188 TCTCATACCTGTTTGAAGCTACAGGAAGGATTTTATTTCAAAAATGTTGCCATTTG 247  
QY 265 ATTCTGAAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324  
Db 248 ATTCGAGAGCTGGAAGGCAAGCCCTGATATACAGGCGCAAACTTGAAACCTTCAA 307  
QY 325 AATGCTGATGTTCTGGTGTGCTGATGCTATCTTCCAGGTATGATGAACCTTACACTGAG 384  
Db 308 AACGCTGATGCTCTTGTATCAACACAGCCCTCTAGGCAATGATGAGCCTTACACGAA 367  
QY 385 CAGATGGCAACTGTGAGAGAGGTTGAAGATCCACCTCACTCTCTGATTTCAATGCA 444  
Db 368 CATATAGGAGCATGTGGAGAAAAGGATCAGGATTTCACTGACTCTCTGACTTTAGCA 427  
QY 445 GGAAGAAAGTTAGCTGAATATGACCAAGGCTAGGCAATTTGTCATGAGTGGGCTCAT 504  
Db 428 GGAAGAAAGTCTGATGATGAGGCGCAAGACAGGACCTTTGTCATGAGTGGGCTCAT 487  
QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAATGGA 564

Db	11568	ATCACCTGGACACGCACTCTCTTACAAATATTTATCTGGGATCCACGGGAGTGGAAACA	1627
Qy	1542	GGTGGCTTTCTAGTGGACAAAACACCAAAATAGCCTACCTCCAAATCCCAGGCAATGCT	1701
Db	1628	AATGGTTTTATATAGACAAACCACTAGGTGGCTTACCTCCAAGTCCCAGGACGCT	1687
Qy	1702	AAGGTTGGCACTTTGGAAATACAGTCTCAAGCAAGCTCACAAACCTTGACCTGACTGTC	1761
Db	1688	AAGGTTGGCTTTTGGAAATACAGCATTTCAAGCGAGCTCACAGACTCTCACCTTGACTGTC	1747
Qy	1762	ACGTCCCGTGGTCCAAATGCTACCTGCCTCCAAATACAGTGTCTCCAAACGAACAAG	1821
Db	1748	ACCTCCCGTGGCAGCAAGTGTACACTGCTCTTATACAGTGAACCCCGTGTGAATAG	1807
Qy	1822	GACACCAAGAAATTTCCCGAGCCTCTGGTGTGTATGCAAAATTTGCAAGAGGCTTCC	1881
Db	1808	AACACAGGAAATTTCCCGAGCCTGTGAACAGTGTATGCAAGCAATTCGCAAGGCTTCC	1867
Qy	1882	CCAATTTCTCAGGGCCAGTGTACAGCCTGTATGTAATCAGTGAATGGAAACAGTTACC	1941
Db	1868	CCTATTTCTCAGGGCCAGGTCACAGCCTTGTATGTAATCTGTGAATGGAAACAGTTACC	1927
Qy	1942	TTGGAATCTACTGGATAATGGAGCAGTGTGATGCTACTTAAGGATGACGGTGTCTACTCA	2001
Db	1928	CTGGAATTTACTGGATAACCGAGAGTGTCCGATGCTCCACCAAGATGTGTGTCTACTCA	1987
Qy	2002	AGGTATTTTCAAACTTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGA	2061
Db	1988	AGGTTTTTTTACGCTTTTGTGCAATTTGTAGATACAGGTTTAAATATATGGCTCTGGGA	2047
Qy	2062	GGAGTTAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGAGTGTGTACATCT	2121
Db	2048	GGAGTCACTTACAGACAGACAGAGCAGCAGCTCCGGAAGAACAGAGCCTGTACATAGAT	2107
Qy	2122	GGCTGGATGAGATGATGAATAACATGGATCCACCAAGACCTGAAATTAATAAGGAT	2181
Db	2108	GGCTGGATGAGGATGGTGAATGAAGATGAACCCACACGCTCTGAAACTAGTT	2162
Qy	2182	GATGTTCAACACAAAGTGTGTTTTCAGCAGAAATCTCTCGGAGGCTCAATTTGGGT	2241
Db	2163	-ATGTTCAAGACAGAGCAGTGTGCTTTCAGCAGACATCTTCAGGGGATCGTTTGGCC	2221
Qy	2242	TCTGATGTCC--CAAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGAC	2298
Db	2222	ACCAATGTCCCGCAGCAGCTCCCATTTCTGACCTCTTTCACCTGTCAAAATCACTGAC	2281
Qy	2299	CTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGAT	2358
Db	2282	CTGAAGCGGACGATCCAGGGGAGAACCTGGTGAATCTGACCTGGAGCGCTCTCTGGGAT	2341
Qy	2359	GATTATGACCATGGAAACAGCTCACAAATATATCATTCGAATTAAGTACAAGTATTTGAT	2418
Db	2342	GACTACGACACGGGAGAGCTTCCAACTACATCCGAATGAGCAGCAGTATCGTTGAT	2401
Qy	2419	CTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATFATCTGCTCTCATCCCAAGGAA	2478
Db	2402	CTCAGGACCACTTCAACACCTCACTCCAAGTGAACACTACCGGTCTTATCCCCAAGAG	2461
Qy	2479	GCCAACTCTGAGGAAGTCTTTTGTAAACCAAGAAACATTAATTTGAAATGGCACA	2538
Db	2462	GCCAGCTCTGAGGAATCTTTGAGTTTGAATCTGGAGGCAACACTTTTGAATGGCACA	2521
Qy	2539	GATCTTTTCAATCTGCTATTCAGGCTGTGTGATTAAGTGTGATCTGAAATCAGAAATATCAAC	2598
Db	2522	GATATCTTCAATCTGCTATTCAGGCTGTGTGATTAAGTGTGATCTGAAATCAGAAATCTCAAC	2581
Qy	2599	ATTGCAAGGATATCTTTGTTTATCTCTCCACAGACTCCGCGCAGACACCTAGTCTGAT	2658
Db	2582	ATTGCAAGGATATCTTTGTTTATCTCTCCACAGACTCCGCGCAGACACCTAGTCTGAT	2632
Qy	2659	GAAACGCTCTCTCTGCTCTTATATATCAATCAAGACCACTTCTCTGGCATTCACAT	2718
Db	2633	GACTCAACTCCCCCTTCTCTGATCATCAGCATCAACAGCAGCATCTCTGGCATCCAGTG	2692

QY 2719 TTAATAATTATGTGGAATGGATAGGAACTGCAGCTGTCAATAGCTAGGGCTGAATT 2778  
Db 2693 CTGAAGATAATGTGGAAGTGGCTAGGGGAAATGCAGGTGACACTAGGTTTGCACTGAATT 2752  
QY 2779 TTGTCAGATAAATAA 2795  
Db 2753 TTCAGGCAAGAAATCAA 2769

RESULT 7  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; APPLICATION NUMBER: US/09/016,434  
; PRIOR APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLANOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match 53.8%; Score 1512; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1301 AACAAAGTGTGGCATCATCCACACAGTCTGCGGCGCCCTTGGGCGCCCTGCGAGCTCAAGAACTAG 1360  
Db 1 AACAAAGTGTGGCATCATCCACACAGTCTGCGGCGCCCTGCGAGCTCAAGAACTAG 60

QY 1361 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 1420  
Db 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 120

QY 1421 ATGGCTCATTTGATGCTTTTGGGCGCCCTTTCATCAGGAAATGAGCTGTCTCAGCGCT 1480  
Db 121 ATGGCTCATTTGATGCTTTTGGGCGCCCTTTCATCAGGAAATGAGCTGTCTCAGCGCT 180

QY 1481 CCATCCAGCTTGAGAGTAAGGATTAACCTCTCAGAAACAGCCAGTGTGATGAATGGCACAG 1540  
Db 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCTCAGAAACAGCCAGTGTGATGAATGGCACAG 240

QY 1541 TGATCGTGGACAGACCGTGGGAAAGGACACTTGTGTTTCTTATCACCTGGACAAACGCGC 1600  
Db 241 TGATCGTGGACAGACCGTGGGAAAGGACACTTGTGTTTCTTATCACCTGGACAAACGCGC 300

QY 1601 CTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGACA 1660  
Db 301 CTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGACA 360

QY 1661 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTGGCAGCTTGGAAAT 1720  
Db 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTGGCAGCTTGGAAAT 420

QY 1721 ACAGTCTGCAAGCAAGCTCAGAAACCTTGACCTGTACTGTCTGCTCCGTCGCTCCAATG 1780  
Db 421 ACAGTCTGCAAGCAAGCTCAGAAACCTTGACCTGTACTGTCTGCTCCGTCGCTCCAATG 480

QY 1781 CTACCTCGCTCCAAATTTACAGTGACTTCCAAACGAAACAGGACACCAACAAATTCCTCA 1840  
Db 481 CTACCTCGCTCCAAATTTACAGTGACTTCCAAACGAAACAGGACACCAACAAATTCCTCA 540

QY 1841 GCCCTCTGCTAGTTTATGCAAAATATTCGCCAAGGAGCTTCCCAATTTCTCAGGCGCAGTG 1900  
Db 541 GCCCTCTGCTAGTTTATGCAAAATATTCGCCAAGGAGCTTCCCAATTTCTCAGGCGCAGTG 600

QY 1901 TCACAGCCCTGATTTGAATCAGTGAAATGGAACAAAGTTTACCTTGGAACTTCTGGATAATG 1960  
Db 601 TCACAGCCCTGATTTGAATCAGTGAAATGGAACAAAGTTTACCTTGGAACTTCTGGATAATG 660

QY 1961 GAGCAGGTGCTGATGCTTACTAAGGATGACGCTGTCTACTCAGAGTATTTCACAACTTATG 2020  
Db 661 GAGCAGGTGCTGATGCTTACTAAGGATGACGCTGTCTACTCAGAGTATTTCACAACTTATG 720

QY 2021 ACAGCAATGGTAGATACAGTCTAAAAGTGGCGGCTCTGGGAGGAGTTAACGCGACGACAG 2080  
Db 721 ACAGCAATGGTAGATACAGTCTAAAAGTGGCGGCTCTGGGAGGAGTTAACGCGACGACAG 780

QY 2081 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTATACATACCTGGCTGGATTGAGAAATGATG 2140  
Db 781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTATACATACCTGGCTGGATTGAGAAATGATG 840

QY 2141 AAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 2200  
Db 841 AAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 900

QY 2201 TGTGTTTCAGCAGAAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTC 2260  
Db 901 TGTGTTTCAGCAGAAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTC 960

QY 2261 CCATACCTGATCTTCCACCTGGCCAAATACCCGACCTGAAGCGCGAAATTCACGCGG 2320  
Db 961 CCATACCTGATCTTCCACCTGGCCAAATACCCGACCTGAAGCGCGAAATTCACGCGG 1020

QY 2321 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATGATGACCTGGAAACAGCTC 2380  
Db 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATGATGACCTGGAAACAGCTC 1080

QY 2381 ACAAGTATATCATTCGAATAAGTACAGTATTCTTGATCTCAGAGCAAGCTTCAATGAAT 2440  
Db 1081 ACAAGTATATCATTCGAATAAGTACAGTATTCTTGATCTCAGAGCAAGCTTCAATGAAT 1140

QY 2441 CTCCTCAAGTGAATACCTGCTCTCATCCAAAGAAAGCCAACTCTGAGGAGTCTTTT 2500  
Db 1141 CTCCTCAAGTGAATACCTGCTCTCATCCAAAGAAAGCCAACTCTGAGGAGTCTTTT 1200

QY 2501 TGTTTAAACAGAAACAACTTACTTTTGAATGGACAGATCTTTTCATTCGCTATTTCAG 2560  
Db 1201 TGTTTAAACAGAAACAACTTACTTTTGAATGGACAGATCTTTTCATTCGCTATTTCAG 1260

2561 CTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAAATGACGAGTATCTTTGTTTA 2620  
1261 CTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAAATGACGAGTATCTTTGTTTA 1320  
2621 TTCTCCACAGACTCCCGCAGAGACACCTAGTCTGATGAAACCTCTGCTCTTGTCTTA 2680  
1321 TTCTCCACAGACTCCCGCAGAGACACCTAGTCTGATGAAACCTCTGCTCTTGTCTTA 1380  
2681 ATATTATATCAACAGACACCACTTCTGCAATTCACATTTTAAATAATTATGGAAGTGA 2740  
1381 ATATTATATCAACAGACACCACTTCTGCAATTCACATTTTAAATAATTATGGAAGTGA 1440  
2741 TAGGAGAACTCCAGCTGTCAATAGCTTAGGCTGAAATTTTGTGATGAAATAATAATA 2800  
1441 TAGGAGAACTCCAGCTGTCAATAGCTTAGGCTGAAATTTTGTGATGAAATAATAATA 1500  
2801 TCATTCATCCTT 2812  
1501 TCATTCATCCTT 1512

RESULT 8  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-09-049-698-16

Query Match 46.5%; Score 1308.6; DB 3; Length 3043;  
Best Local Similarity 69.6%; Pred. No. 0;  
Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;  
QY 21 AGCAATGGGCGCAATTAAGAGTCTGTGTTCATCTTCTTACCTTCTAGAGGGGC 80  
DB 10 AACAAATGGGTTATTCAGAGGTTTTTGTCTTCTTCTTCTTCTTCTTCTTCTTCT 69  
QY 81 CTTGAGTAATTCATCTCATTCAGCTGAACAAATGGCTATGAAGGCATTTGCTGTGCAAT 140  
DB 70 ---AAATACCTTCTTCATTAAGCTGAATATAATATGGCTTTGAAGATATTTGCAITGTTAT 126  
QY 141 CGACCCCAATGTGCCAGAGATGAACATCAITTCACAAATAAAGGACATGGTGACCCA 200  
DB 127 AGATCCTAGTGTGCCAGAGATGAATAATAATTTGAACAAATAGAGGATATGGTGACTAC 186  
QY 201 GGCATCTCTGATCTGTTTGAAGCTACAGGAAAGGATTTTATTTCAAAAATTTGGCCAT 260  
DB 187 AGCTTCTACGTACCTGTTTGAAGCCACAGAAAAGATTTTTTTTCAAAAATTTGATCTAT 246  
QY 261 TTTGATTCCTGAACATGGAAGACAAAGGCTGACTATGTGAGACCAAAACCTTGAGACCTA 320  
DB 247 ATTAATTCCTGAGAAATGGAAGGAAATCTCTCAGTACAAAGGCCCAAAACATGAAACCA 306  
QY 321 CAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACAC 380  
DB 307 TAAACATGCTGATGTTATAGTTTGCACCACTACACTCCAGGTAGAGATGAACCTACAC 366  
QY 381 TGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGAGATCCACCTCCTCTGATTTTCAAT 440  
DB 367 CAAGCAGTTTCAGAAATGTGGAGAGAAAGGGAATACATTCATCTTCCCTGACCTTCT 426  
QY 441 TGCAGGAAAAAGTTAGCTGATATATGACACCAAGGTAGGGCAATTTGTCATGAGTGGC 500  
DB 427 ACTTGAATAAATAAATAATGATATGGACCACAGGCAAACTGTTTGTCCATGAGTGGC 486  
QY 501 TCATCTCAGATGGGAGTATTTGACGAGTACAAATGATGAGAAATTTCTACTTATCCAA 560  
DB 487 TCACCTCCGCTGGGAGTGTGTTGATCAGTACAAATGAAGATCAGCCCTTCTACCGTCTAA 546  
QY 561 ---TGAAGAATAACAAGCAGTAAAGTGTTCAGCAGGTATTTACTGGTACAAATGATGATAA 617  
DB 547 GTCAAAAAAATCGAAGCAACAAAGGTGTTCCGAGGTATCTCTGGTGAATAATAGAGTTTA 606  
QY 618 GAAGTCTAGGGAGGAGCAGCTGTATACACCAAAAGATGCACATTCATTAAGATACAGGACT 677  
DB 607 TAAGTGTCAAGGAGGAGGCTGTCTTAGTAGAGCATGCAGAAATTTGATCTACAAACAAACT 666  
QY 678 CTATGAAAAAGGATGTGAGTGTGTTCTCCAATCCCGCAGACGGAGAGGCTTCTATAT 737  
DB 667 GTATGAAAAAGATTTGTCAATTTCTCTGATAAAGTACAAACAGAAAAAGCATCCATAAT 726  
QY 738 GTTTGCAACAACATGTTGATTTCTAGTGAATTTCTGTACAGAACAAACACCAACAAAGA 797  
DB 727 GTTTATGCAAGTATTTGATTTCTGTTGAAATTTTGTACGAAATAAACCAATTAATCAAGA 786  
QY 798 AGCTCCAAACAACAAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATGCTGTGA 857  
DB 787 AGCTCCAAAGCTTCAAAAACATAAAGTGAATTTTAGAAGTACATGGAGGTGATAGCAA 846  
QY 858 TTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACAGCCCAACCAATCCCACCTTCTC 917  
DB 847 TTCTGAGGATTTTAAAAAACCACTATCCATGGTGACACCACTCTCCCTCCCTGCTTCTC 906  
QY 918 ATTGCTCAGATTTGACAAAGAAATTTGTTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 977  
DB 907 ATTGCTGAAGATCAGTCAAGAAATTTGCTGTTAGTTTCTTGATTAAGTCTGGAAGCATGG 966  
QY 978 GACTGGTAAACCGCTCAATGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCGACAGT 1037  
DB 967 GGGTAAGGACCGCCTTAATCGAATGAATCAAGCAGCAAAACATTTCTCTGCTGCGAGCTGT 1026

QY	1038	TGAGCTGGGGTCTCTGGTGTGGATGTGTGACATTTGACAGTGTGCCCATCTGACAAAGTGA	1097
DB	1027		1086
QY	1098	ACTCATACAGATAAACAGTGGCAGTGCACGGGACACACTGCCAAAAGATTACTCTGCAGC	1157
DB	1087		1146
QY	1158	AGCTTTCCAGAGGAGCGTCCATCTGCAGCGGGCTTCGATCGGATTTTACTGTGATAGGAA	1217
DB	1147		1206
QY	1218	GAATAT---CCAACTGATGGATCTGAATTTGTCTGCTGACGGATGGGGAACACACAC	1274
DB	1207		1266
QY	1275	TATAAGTGGGTCTTTTAACGAGGTCAACAAGAGTGGTGCATCATCCAACACAGTGCCTTT	1334
DB	1267		1328
QY	1335	GGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGAC	1394
DB	1327		1386
QY	1395	ATATGCTTCAGATCAAGTTTCAGAACAAATGGGCTCAATTGATGCTTTTGGGGCCCTTCATC	1454
DB	1387		1446
QY	1455	AGGAAATGGAGCTCTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAGGATTAACCTCCA	1514
DB	1447		1506
QY	1515	GAACAGCAGTGGATGAATGSCACAGTGAATCGTGGACAGCCGTGGGAAAGGACACTTT	1574
DB	1507		1566
QY	1575	GTTCCTTATCACCTGGHCAACGAGCCTCCCAAAATCCTCTCTGGGATCCAGTGGACA	1634
DB	1567		1626
QY	1635	GAAGCAAGTGGGCTTTCTAGTGGACAAAACACCAAATGSCCTACTCCAAATCCCAAG	1694
DB	1627		1686
QY	1695	CAATTGCTAAGGTTGGCACTTGGAAATACAGTCTGC-----AAGCAAGCTCACAAACCTT	1748
DB	1687		1746
QY	1749	GACCTGTACTGCACCTCCGTCGGTCCAAATGCTACCCCTGCCTCCAAATACAGTGACTTC	1808
DB	1747		1806
QY	1809	CAAAACGAAACAAGGACACACAGAAAATCCCCAGCCCTCACAGCCCTGATGAATCAGTGAATGG	1928
DB	1807		1926
QY	1869	CCAAGGAGCTCCCAATTTCTCAGGCCAGTGTTCAGCCCTCATTCGAATCAGTGAATGG	1988
DB	1867		1986
QY	1929	AAAAACAGTTACTTGGAACTACTGGATAATGGAGCAGTGTGTGCTACTAAGGATGA	2048
DB	1927		2046
QY	1989	CGGTCTTACTCAAGGTATTTACAACTTATGACACGAATGGTAGATACAGTCTAAAAGT	2108
DB	1987		2106
QY	2049	CGGGCTCTGGAGGAGTTTAACGACCCAGACGGAGAGTCATACCCACAGAGTCGAGC	2168
DB	2047		
QY	2109	ACTGTACATACCTGCTGGATTGAGAAATGAATTAATGAAATCCACACAGACCTGA	

Db	2107	CGCGTACATACCGGCTGGGTAGTGAACGGGAAATTGAAGCAAACCCGCCAAGACCTGA	2166
Qy	2169	AAATTAATAAGGATGATGTTCAACAACAAGTGTGTTTCAGCAAGAACTCTCGGGAGG	2228
Db	2167	AAATTGAT---GAGGATCTCAGACCACTTGGAGGATTTCAAGCGAAACAGCATCCGGAGG	2223
Qy	2229	CTCATTTGTGCTCTTGATGTCCCAATGTCTCCCATAGCTCATCTCTTCCCACTTGGCCA	2288
Db	2224	TGCATTTGTGTAATCACAAGTCCCAAGCCTTCCCTTGCTGACCAATACCCCAAGTCA	2288
Qy	2289	AATCACGACCTGTAAGCGGAAATTCACGGGGCAGTCTCATTTATCTGACTTGGACAGC	2348
Db	2284	AATCACAGACCTTGATGCCACAGTTCATGAG---ATAAGATTATCTTCATGACAGC	2340
Qy	2349	TCTCTGGGATGATTATGACCATTGGAACAGCTCAACAAGTATATCATTCGAATAAGTACAAG	2408
Db	2341	ACCAGGAGATAATTTTGATGTTGGAAAGTTCAACGTTATATCATAGAATAAGTGCAG	2400
Qy	2409	TATTTTGATCTCAGACAGAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCAT	2468
Db	2401	TATTTTGATCTAAGAGACAGTTTGTGATGATGCTCTTCAAGTAAATACTACTGATCTGTC	2460
Qy	2469	CCAAAGGAAGCCAACCTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAACATTACTTTGA	2528
Db	2461	ACCAAAGGAGGCCAACTCCCAAGGAAGCTTTTGCATTTAAACCGAAATATCTCAGAAGA	2520
Qy	2529	AAATGSCACAGATCTTTTCATTGCTATTCAGGCTGTGTGATAAGGTCGATCTGAATCAGA	2588
Db	2521	AAATGCAACCCACATATTTATTGCCATTAAAGATATAGATAAAGCAATTTGACATCAA	2580
Qy	2589	AATATCCACATTTGCACGATATCTTTGTTTATCTCTCCACAGACTCCGCCAGACACC	2648
Db	2581	AGTATCCACATTTGCAACAAGTAACCTTGTGTTTATCCCTCAAGCAAAATCCTGATGACATTGA	2640
Qy	2649	TAGTCTGATGAAACGTCGTGCTTCCTGCTTAATTCTATA	2689
Db	2641	TCCTACTCTACTCTACTCTCTACTCTCTGATAAAGTCTATA	2681

```

RESULT 9
US-09-049-698-18
; Sequence 18, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-WEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:

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Wed Oct 20 10:24:45 2004

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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/828,856
;   FILING DATE: 31-MAR-1997
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Becker, Cheryl L.
;     REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 847/935-1729
;   TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 3181 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; US-09-049-698-18

      Query Match          46.5%;    Score 1308.6;    DB 3;    Length 3181.;
      Best Local Similarity 69.6%;    Pred. No. 0;
      Matches 1866;    Conservative 0;    Mismatches 794;    Indels 21;    Gaps 6;

QY      21  AGCAATTGGGCGCCATTTAAGAGTCTGTGTTCATCTTGATTTCTACCTTCTTAGAGGGGC 80
DB      21  AACAAUGGGGTATTTCAGAGGTTTTGTTTCTCTTAGTTCGTGCTGCTGCCACGATC 80

QY      81  CCTGAGTAATTCATCATATTCAGCTGAACAACATGGCTATGAAGGCATTTCTGTTGCAAT 140
DB      81  --AAATACTTCCTTCATTAAGCTGGAATAATAATGGCTTTTGAAGATATTGTCAATTGTTAT 137

QY      141 CGACCCCAATGTGCCAGNAGATGAACACTCATTCAAACAATAAAGACATGTTGACCCA 200
DB      138  AGATTCCTAGTGTGCCAGAGATGAATAATAATTGAACAATAGAGGATATGGTACTAC 197

QY      201 GGCAATCTCTGTATCTGTTTGAAGCTCACAGHAAGCGATTTTATTTCAAAAATGTTGCCAT 260
DB      198  AGCTTCTACGTACCTGTTTGAAGCCACAGAAAAAAGATTTTTTTTCAAAAATGTATCTAT 257

QY      261  TTTGATTCCTGAACAATCGAAGAACAAGGCTGACTNTGTGAGACCAAAACCTTGAGACCTA 320
DB      258  ATTAATTCCTGAGATTTGGNAGGAAATTCCTCAGTACAAAAGGCCAAAACATGAACAACCA 317

QY      321 CAAAAATCTGATGTTTGTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTACAC 380
DB      318  TAACATGCTGAATGTTAGTTGCAACCCTACACTCCCAGGTAGAGATGAACCATACAC 377

QY      381 TGACGAGATGGCCAACTGTGGAGAGAAGGGTGAAGGATCCACCTCCTCTGATTTTCAT 440
DB      378  CAAGCAGTTCACAGAATGTGGAGAGAAAGGCGAATACATTCACTTCACCCCTGACCTTCT 437

QY      441 TGCAGAAAAAAGTTAGCTGTAATATGGACCACAAGGTAGGCGATTTGTCCATGAGTGGGC 500
DB      438  ACTTGAIAAAAAAAAAAATAATGAATATGGACCCAGGCGAAAACCTGTTGTTCATGAGTGGGC 497

QY      501 TCATCTACGATGGGAGTATTTGACGAGTACAAATAATGATGAGAAATTTCTACTTATCCAA 560
DB      498  TCACTCCGGTGGGAGTGTTTGATGAGTACAAATGAAGATCAGCCTTTCTACCGGTGCTAA 557

QY      561  ----TGAAGAATAACAAGCAGTAGATGTTTACAGAGGTATTACTGGTACAAATGTAGTAAA 617
DB      558  GTCAAAAAAATTCGAAGAACCAAGGTGTTTCCGAGGATCTCTGGTAGAAATAGAGTTTA 617

QY      618 GAAGTCTCAGGGAGGCGAGCTGTTTACACCAAAAGATGCACATTCATTAAGTAAAGTAAACAGGACT 677
DB      618  TAGTGTTCAGGAGGCGAGCTGTTCTTAGTAGCATGCAGAAATTGATTTCTACCAACAAACT 677

QY      678 CTATGAAAAGGATGTGAGTTTGTCTTCCAAATCCCGCCAGACGGAGAAAGCTTCTATAT 737
DB      678  GTATGAAAAGGATTTGTCAATTCCTTCTCTGATAAAGTACAAACAGAAAAAGCATCCATAAT 737

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2014	GGGCAATGGTGCAGGTCGTGATACCTCAAGAATGATGCATCTACTCTCAAGATACTTTTA	2073
2012	CAACTTATGACAGAAATGGTTAGATACAGTCTAAAGTGGGGCTCTGGGAGGAGTTAAACG	2071
2074	CAGATTACTATGGAAATGGTAGATACAGTTTAAAGTACATGCACAGGCAAGAAACAACA	2133
2072	CAGCCAGACGAGAGTGTATACCCACAGAGAGTGAGACCTGTATACATCCTGGCTGGATTG	2131
2134	CGGCTAGGCTAAATTTAAGACAACACAGAAACAAGTCTCTATATGTTCCAGGCTACGTTG	2193
2132	AGAATGATGAATACAAATGGAATCCACAGACCTGAAATTAATAAGGATGATCTTCAAC	2191
2194	AAACCGGTAAATTTATCTGAACCCACCCAGACCTGAAGTCAAAGATGACCTGSCAAAG	2253
2192	ACAAGCAAGTGTGTTTCAGCAGAAACATCCTCGGAGGCTCAATTTGTGGCTTCTCATGTCC	2251
2254	CTPAAATAGAGACTTTTAGCAGATPACCTCTGGAGGGTCACTTTACTGTATCAGAGGCTC	2313
2252	CAAAATGCTCCCA---TACCTGATCTCTTCCCAACCTGGCCMAATACCCAGACTGAAGCGG	2308
2314	CTCCTCTGGTAATCACGCTTCTGTGTTCCCAACCCAGTAAATTAACAGTCTTGAGGCTA	2373
2309	AAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACC	2368
2374	AGTTCAAAGAAG---ATTATATTCACCTTTCAAGCAGCCCTGGCAATGTCCTAGATA	2430
2369	ATGGAACAGCTCACAAAGTATATCATTTCGAATAAGTACAAGTATCTTGATCTCAGAGACA	2428
2431	AAGAAACGCAACAGCTACATTAAGAATAAGTAAAGTTTTCATGGATCGTCAAGAAG	2490
2429	AGTTCAATGAATCTCTTCAAGTGAATPACTGCTCTCATCCAAAGGAAGCCAACTCTG	2488
2491	ATTTTGACAATGGCACTTTAGTGAATPACTTCTAACTAATCCTAAGGAGGCCGGATCMA	2550
2489	AGGAAGTCTTTTGTGTTTAAACAGAAACCAATTACTTTTGAAAATGGCAGAGATCTTTCA	2548
2551	AAGAAAATTTTGAATTTTAGCCGGAACATTTTAGACTAGAAATGSCACCAATTTCTATA	2610
2549	TTGCTATTACAGGCTGTTGTAAGGTGCAATCTGAAATTCAGAAATATCCACANTGACGAG	2608
2611	TTTTCAGTCCAAAGCCATCAACGAAGCCAAATCTCATCTCAGAGGTTTCTCAATTTGTACAAG	2670
2609	TATCTTTGTTTATTCCTCCAC	2629
2671	CAATCAAAATTTATTCCTCTAC	2691

## RESULT 11

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RECORD:
; Sequence 1, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoded by
; TITLE OF INVENTION: Activated Chloride Channels
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/06/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-E
; OTHER INFORMATION: endothelial cells
US-10-055-412B-1

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US-10-055-412B-1

QY	893	CACAGCCACAAATCCACCTTCTCATTTGCTGAGATGGACAAAGAAATGTGTGTTTAG	952
DB	940	ATCCACGGACTCATCTACATTTTCATTTGCTCAAGTCCAAACACGGGTAGTCTGTTTGG	999
QY	953	TCCTTGACAAATCTGGAAGCATGGGATACCGCTCAATCGACTGAATCAACGAG	1012
DB	1000	TACTTGATAAATCTGGAAGCATGCTCGAAGACCGTCTCTTTCAATGAATCAAGCG	1059
QY	1013	GCAGCTTTCTTGCTGCAGACAGTTCAGCTGGGGTCTGGGTGGGATGCTGCATTTG	1072
DB	1060	CAGAATATATCTGATTCAGATTATGAAGGGATCTTTAGTTGGGATGTTACATTTG	1119
QY	1073	ACAGTGTGCGCAATGTACAAAGTGAACCTCATACAGATAAAACAGTGGCGAGTCACGGGACA	1132
DB	1120	ACAGTTTGTGAATCCAAATCATCTAACAGAAATACTGATGAATGTTTACCAA	1179
QY	1133	CATTCGCCAAAGATTAACCTCGACAGCTTCAGGAGGACGTCCATCTGCAGCGGGCTTC	1192
DB	1180	AGATACCGCAAAATCTGCTCAAGTAGCTAATGGTGGAACTTCAATTTGTAGAGGCTCA	1239
QY	1193	GATCGGCAATTTACTGTGATTAGGAAGA--AATATCCAACTGATGGATCTGAAATTTGGT	1249
DB	1240	AAGCAGGATTCAGGCAATTTCCACAGTGACCAAGTACTTCTGTTCTGAAATCATAC	1299
QY	1250	TGCTGACGGATGGGGAAGACACACTATAAGTGGGTGCTTTAAGAGGTCAACAAGTG	1309
DB	1300	TATTAACGTGATGGGGAAGATATGAATAAATTCATGCTTTGAGGATGTAAACCGAAGTG	1359
QY	1310	GTGCCATCATCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGT	1369
DB	1360	GTGCAATCATCACACCAATGTCTGTGGGACCTCTGCTGCCAAGAACTGGAGACATTTGT	1419
QY	1370	CCAAATCACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTGGGCTCA	1429
DB	1420	CAAAATGACAGAGGATATCGTTTTTTTGGCCAATAAGACATA-----ACTGGGCTTA	1473
QY	1430	TTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTAGCGCTCCATCCAGC	1489
DB	1474	CTAATGCTTTCAGTAGAAATTCATCTAGAAAGTGGAAAGCATCACTCAGCAGGCTATTCA	1533
QY	1490	TTGAGAGTAAGGATTTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGCATCGTG	1549
DB	1534	TGAAAGCAAAAGCTTTGAAATTTACAGGAAGGAAGAGTAACGGCACAGTGCCCTGAG	1593
QY	1550	ACAGCACGTTGGGAAAGGACATTTGTCTTATCACTCGGCAACACGAGCTCCCAAA	1609
DB	1594	ACAGTACAGTTGGAATGACATTTCTTTGTGTACATGGACAATAACAAAACCGAATA	1653
QY	1610	TCCTTCTCTGGGATCCCAAGTGGACAGAGCA-----AGTGGCTTTGTAGTGACA	1660
DB	1654	TTGTTCTCCAAGATCCAAAGGAAAGAAATATAAAACCTCGATTTCAAGAAAGATAGT	1713
QY	1661	AAACACCAAAATGGCCCTACCTCCAAATCCAGGCAATGTCAAGTTGGCACTTTGGAAT	1720
DB	1714	TAAATATTCGATCTGCTCGCTGCAAAATACCTGGTATTGACAGACAGTACTTGGACTT	1773
QY	1721	ACAGTCT-----GCAGCAAGCTCACAAACCTTGCACCTGACTGTACGTCCTCCCTG	1771
DB	1774	ACAGCCTCTAATAATCATGCGAGCTCTCAATGCTAAACAGTGACAGTACCCTCAG	1833
QY	1772	CGTCAAATGCTACCTGCCTCAATTAAGTGAATTCGCAAGTCCAAACGAAAGGACACGACA	1831
DB	1834	CAAGAAGTCTCTACTATACCCCGAGTAATTGCAACAGCTCACATGAGTCAACATCAGCAC	1893
QY	1832	AATTTCCAGCGCTCTGTAGTTTATGAAATATTGCGCAAGGAGCTCCCAATTTCTCA	1891
DB	1894	ATTATCTAGCCCAATGATTTGTTATGCAAGTCAGTCAGTCAAGGTTTGTGCTGTACTGG	1953
QY	1892	GGGCGAGTGTACAGCCCTGATTTGAATCAGTGAATGGAAAAACAGTTTACCTTGGAACTAC	1951
DB	1954	GAATCAGTGTAAATAGCCATTATAGAAAACCGAAGATGGACATCAAGTAACATTTGGAGCTCT	2013
QY	1952	TGGATAATGGAGCAGGTGCTGATGTTACTTAAGATGACGGTGTCTACTCAAGGTAATTTCA	2011

Query Match		32.0%; Score 900.2; DB 4; Length 3317;
Best Local Similarity		61.4%; Pred. No. 2.6e-263;
Matches 1635; Conservative 0; Mismatches 978; Indels 48; Gaps 10;		
Qy	5	TCACAGGAGATGACAGCAATGGGCGCATTTAGAGCTTCGTGTTCACTTTGATTTTC 64
Db	43	TTACTGTAAACATGTGCAAAATGGTCTCTCTGTAATGTTTATTTCTGTTCTTAATTTGC 102
Qy	65	ACCTTCTAGAGGGCCCTCAGTAATTCATCTCACTTCACTGAGTGAACAACTAGGCTATGAAG 124
Db	103	ATCTCTTGCCCTGG---AATGAAAGATTCAATGGTAAATTTGATTACAAATGGGTATGATG 159
Qy	125	GCATTGTCGATCGAATCGACCCCAATGTCGAGAGATGAACACTCAATCAACAAATAA 184
Db	160	GCATTGTCATGTCAATTAACCCAGTGTGCAGAGATGAATAACTCAITGAAACATAA 219
Qy	185	AGGACATGTGTACCCAGGCATCTCTGTATCTGTGTTGAGCTACAGGAACGGATTTTATT 244
Db	220	AGGAATGGTAACTGAAGCTTCTACTTACCTGTTTCATGCCCAACGAAAGAGTTTATT 279
Qy	245	TCAAATATGTTGCCATTTTGTGATTCCTGAAACATGGAAGACAAAGGCTGACTATGTGAGC 304
Db	280	TCAGGAATGTGAGCATTTTAAATCCAAATGACCTGGAAATCAAAATCTGAGTACTTCATAC 339
Qy	305	CAAACTTCGAGACCTACAAATATGCTGATGTTCTGCTGCTGAGTCTACTCTCCAGGTA 364
Db	340	CAAAACAAGATCATATGACCAGGCAGATGTCTAGTTGCTAATCCCTATCTAAATATG 399
Qy	365	ATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGAGAGAGGTGAAGATCCACC 424
Db	400	GAGATGATCCCTATACACTTCAATATGGAAGGTGTGGAGAAAGGAAATATATACAT 459
Qy	425	TCACCTCTGATTTCAATGCGAAGAAAGTTAGCTGAATATGACACACAAGGTAGGGCAT 484
Db	460	TTACTCCAACTTCTTGTGTACTAATAATTTCCACATCTATGGTCCCAGGCGAGAT 519
Qy	485	TTGTCATGAGTGGGCTCATCTACATGGGAGTATTTGACGAGTACAAATATGATGAGA 544
Db	520	TTGTCATGAGTGGGCTCATCTCCCTGGGGAATATTTGATGAGTATAATGAGACCGAG 579
Qy	545	AATCTACTTATCC---AATGGAAGATACAGCAGTAAAGTATGACACACAAGGTAGGGCAT 601
Db	580	CATTCTATATTTCCAGAAAGACATTTGAAGCAACAGAGTTTCAACTCATATTAATCTG 639
Qy	602	GTAACAATGTAG---TAAAGAGTGTACGGAGGCGAGCTGTATACACCAAAAGATGCAAT 658
Db	640	GTATTAATGTGGTTTCAAGAAATGCCCTGGAGGCGAGCTGTATACAGTCTATGAGAC 699
Qy	659	TCAATAAGTAAACAGGACTCTATGAAGAAAGATGTGAGTTGTTTCTCCAAATCCGCCAGA 718
Db	700	GTGACTCACAGACAGGGCTGTATGAAGCAAAATGTACATTCCTTCCAAATAAATCCCGA 759
Qy	719	CGGAGAAGGCTTCTATATATGTTTGCAACAACATGTTGATTTCTATAGTTGAATTCGTACAG 778
Db	760	CTGCAAGGAATCCATATGTTATGCAAGTCTCCATTCGTGACTGAATTTTGTACAG 819
Qy	779	AACAAACCAACAAGAGCTCCAAACAGCAAAATCAAAATGCAATCCCGAAGCA 838
Db	820	AAAAACACAAATACAGAGCTCCAAACCTTACAAACAAATGTGCAATGGCAAAAGCA 879
Qy	839	CATGGGAAGTATCCGTTATCTGAGACATTTAAGAAAACTCTCTATGACA-----A 892
Db	880	CATGGGATGTAATCATGAACTCTGTGACTTTTCAGAAATACATCTCCCATGACAGAAATGA 939
Qy	893	CACAGCCACCAATCCACCTTCTCATTGCTGCAGATTGCAAGAAATTTGTGTTTAG 952
Db	940	ATCCACGACTCATCTTACATTTTCTTGTCTCAAGTCCAAACAGCGGTAGTCTGTGTTG 999
Qy	953	TCCTTGCAAAATCTGGAAGCATCGGACTGGTAACCGCTCAATCGACTGAATCAAGCAG 1012
Db	1000	TACTTGATAAATCTGGAAGCATGCTGCAAGACCGCTCTCTTTCAATGAATCAAGCAG 1059
Qy	1013	GCCAGCTTTTCTGCTGCAGACAGTTAGCTGGGGTCTCTGGGTGGGATGGTGCATTTG 1072
Db	1060	CAGAACTATATCTTGAATCAAGTTATTGAAAAGGATCTTTAGTTGGGATGTTTACATTTG 1119
Qy	1073	ACAGTGTCTGCCATGTACAAAGTGAATCTATACAGATAAAGTGGCGAGTGACAGGACA 1132
Db	1120	ACAGTGTGTGAATCCAAATCATCTAAACAAGATAACTGATGATSAATATTTTACCAA 1179
Qy	1133	CATCGCCAAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGAGCGGGCTTC 1192
Db	1180	AGATCACCGCAAACTGCTCAAGTAGTAATGGTGAACCTTCAATTTGTAGAGGGCTCA 1239
Qy	1193	GATCGGCAATTTACTGTGATTTAGGAAGA---AATATCCAACCTGATGATCTGAAATTTGTC 1249
Db	1240	AAGCAGATTTCCAGGCAATTTATCCAGTGAACAGAGTACTTCTGGTTCTTGAATCATAC 1299
Qy	1250	TGCTGACGAGTGGGGAAGCAACACTATTAAGTGGGTGCTTTAAGGAGGTCAACAAAGTG 1309
Db	1300	TATTAATCTGATGGGAAGATATGAATAAATTAATTCATGCTTTGAGGATGTAATAACGAAGTG 1359
Qy	1310	GTGCCATCATCCACACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGT 1369
Db	1360	GTGCAATCATCCACACCATTTGCTCTGGACCTCTGCTGCCAAGAACTGGAGACATTTGT 1419
Qy	1370	CCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAACAATGGCCTCA 1429
Db	1420	CAAAATGACAGAGGATATCGTTTTTTTGGCAATAAAGACATA-----ACTGGCCTTA 1473
Qy	1430	TTGATGCTTTTGGGCCCCCTTCATCAGGAATGGAGCTCTCTTAGCCCTCCATCCAGC 1489
Db	1474	CTAATGCTTTCACTAGATTTTCTCTAGAACTGGAGCATCTACTCAGCAGGCTATTCAGT 1533
Qy	1490	TTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCAAGTATGCTGG 1549
Db	1534	TGGAAGCAAGCCCTTGAAATTTACAGGAAGAAAGATGAACCGCAAGTGCCTGTAG 1593
Qy	1550	ACAGCACCGTGGGAAGAGCACTTTGTTTCTTATCACCTGGACAGCAGCTCCCAAA 1609
Db	1594	ACAGTACAGTTGGAATGACACTTTCTTTGTTGTTCACATGACATAACAAACAGAAA 1653
Qy	1610	TCCTTCTCTGGATCCCAAGTGCAGACAGCA-----AGTGGCTTTGTAGTGGACA 1660
Db	1654	TTGTTCTCAAGATCCAAAGAAAGAAATATAAACCTCGGATTTCAAGAAAGATAAGT 1713
Qy	1661	AAACACCAAAATGCCCTTACCTCCAAATCCAGGACATTTGTAAGTGGCACTTTGGAAT 1720
Db	1714	TAAATATTCGATCTGCTCGTCTGCAATACCTGGTATTTGACAGACAGGTACTTGGACT 1773
Qy	1721	ACAGTCT-----GCAAGCAAGCTCAAAACCTTGACCCCTGACTGTCTCACGTCCTGG 1771
Db	1774	ACGCCCTTCTAAATTAATCATGCCAGCTCTCAAAATGCTAAACAGTGCAGTGAACCTCGAG 1833
Qy	1772	CGTCCAATGTACCCCTGCCCTTCAATTAACAGTCTTCCAAACGAAACAGGACACCGACA 1831
Db	1834	CAAGAGTCTCTATATACCCCAAGTAAATGCAACAGCTCATCATGAGTCAACATACAGCAC 1893
Qy	1832	AATTCGCCACCTCTGTTAGTTTATGCAAAATTTGCAAGGAGCTCCCAAGGAGCTCCCAATCTCA 1891
Db	1894	ATTATCTGACCCCAATGATTTGTTTATGCAAGTCAAGTCAAGGTTTTCCTCTGTACTCG 1953
Qy	1892	GGGCCAGTGTACAGCCCTGATTTGAATTCAGTGAATGGAATAACAGTTACTCTGGAACCTAC 1951
Db	1954	GAATCAGTGTATAGCCATTATAGAAACCGAAGATGGACATCAAGTAAACATTGGAGCTCT 2013
Qy	1952	TGGATAATCGAGCAGTGTGCTGCTACTAAGATGACGGTGTCTACTCAAGATTTTCA 2011
Db	2014	GGGCAATGGTGCAGTGTGATGATCTGTCAAGAAATGATGGCATCTACTCAAGATACTTTA 2073
Qy	2012	CAACTTATGACAGGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAG 2071
Db	2074	CAGATTTACTATGGAATGCTGATACAGTTTAAAGTATCATGACAGGCAAGAAACAAACA 2133
Qy	2072	CAGCCAGCGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTG 2131

Db 2134 CGGCTAGGCTAAATTTAAGACAAACACAGAACAAAGATTCTATGTTTCCAGGCTACGTTG 2193

QY 2132 AGAATGATGAATAACAATGGAATCACCAAGACCTGAAATTAATPAAGGATGATGTTCAAC 2191

Db 2194 AAAACGGTAAATTTATCTGAAACCCACCCAGACCTGAAAGTCAAAAGTACCTGGCAAAAG 2253

QY 2192 ACAAGCAAGTGTGTTTACAGCAAAACATCTCCGGAGGGCTCATTTCTGGGTTCTGTATGTC 2251

Db 2254 CTAAATAAGAAAGACTTTTACGACGACTAACCTCTGGGGGTCAITTTACTGTATCAGGAGCTC 2313

QY 2252 CAAATGCTCCCA---TACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAGGCGG 2308

Db 2314 CTCCTCTGGTATCACCCCTCTGTGTTCCCAAGTAAAAATTACAGATCTTGAAGCTA 2373

QY 2309 AAATTCACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACC 2368

Db 2374 AGTTCAAAGAAG---ATTATATTCAACTTTTCATGGACGCCCCCTGGCAATGTCCTAGATA 2430

QY 2369 ATGGACAGCTCACAGTATATCATTCGATAAGTACAAAGTATTTCTTGATCTCAGAGACA 2428

Db 2431 AAGGAAAGCCACAGCTCATTAATAGAATTAAGTAAGGTTTCATGGATCGTCAAGAAG 2490

QY 2429 AGTTCAATGAATCTCTTCAAAGTAATACTACTCTCTCATCCAAAGGAAGCCAACTCTG 2488

Db 2491 ATTITGACATCGGACTTTAGTGAATACTTCTAATCTAATACCTAAGAGGCGCGATCAA 2550

QY 2489 AGGAAGTCTTTTGGTTTAAACCGAATAACTACTTTTGAANAATGGCACAGATCTTTTCA 2548

Db 2551 AAGAAAATTTTGAATTTTAAAGCCAGAACATTTTAGAGTAGAANAATGGCACCAAAATTCCTATA 2610

QY 2549 TTGCTATTCAGGCTGTTGATAAGCTCGATCTGAAATCAGAAAATATCAACATTCGACGAG 2608

Db 2611 TTTCAAGTCCAGCCCATCAACGAAAGCCAAATCTCATCTCAGAGGTTTCTCACAATGTACAAG 2670

QY 2609 TATCTTTGTTTATTCCTCCAC 2629

Db 2671 CAATCAAAATTTATTCCTCTAC 2691

RESULT 12

US-09-193-562D-13

; Sequence 33, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedict U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 33

; LENGTH: 3022

; TYPE: DNA

; ORGANISM: Mus musculus

US-09-193-562D-13

D <sub>b</sub>	1101	ATAAAATAACGAGTAGTAGTACCTACAAAGAATACACCGCAACCTCCCCACAGGCT	11160
Q <sub>Y</sub>	1162	TCAGGAGGAGCTCCATCTGCAGCGGGCTTCATCGGCATTTACTGTGATTA---GGAAG	12118
D <sub>b</sub>	1161	TCTGTGGAACCTCAATTGGCATGGACTCCAGCAGGAATTCAGGCAATTAACCTCCAGT	12220
Q <sub>Y</sub>	1219	AAATATCCAACTGATGGATCTTGAATTTGCTGTCGCGGATGGGGAAGACAACACTATA	12718
D <sub>b</sub>	1221	GACCAAGACACTTCGGTTCTGAGATCGATTGTCTCAGATGGGGAAGATAATGGAATA	12800
Q <sub>Y</sub>	1279	AGTGGGTGTTTAAACGAGGTCAACAAGATGGTGGCATCATCCACAGTCGGTTTGGGG	13138
D <sub>b</sub>	1281	CGTTCCTGTTTGGAGCGGTCTCTCGACGGTGGCATCTCCACACCATCGCTCTGGGG	13400

1339 CCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGGAGTTTACAGACATAT 1398  
1341 CCTTCGGTCCCGAGAACTGGAGACTCTGTGGACATGACAGGAGGCTTCGTTCTAT 1400  
1399 GCTTCAGATCAAGTTCAGAACATGGCTCATGTGCTTTTGGGGCCCTTCATCAGGA 1458  
1401 GCCAACAGACCT-----AAACAGCCTTATCGATGCTTCAGTAGAATTTCACTACA 1454  
1459 AATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGGAGTAAGGATTAACCTCCAGAAC 1518  
1455 AGTGGCAGGCTCTCCAGCAGGCTCTGCAGTTGGAGAGCAAGCCTTCGATGTCAGAGCA 1514  
1519 ASCCAGTGGATGAATGGCAGCATGATCTGGACAGCAGCGTGGGAAAGGACATTTGTT 1578  
1515 GGGGCATGGATAAACGCTACAGTACCTCTGGACAGTACCGTGGCAAGCAGCAGCTTCCTT 1574  
1579 CTTATCACTGGACAAAGCGCTCCCAAAATCTTCTCTGGATCCCAAGTGGAGCAAG 1638  
1575 GTTATCACTGGATGTAAGAAAGCCAGAAATCATTTCTCAAGATCCAAAGGAAAGAAA 1634  
1639 CA-----AGTGGCTTTGAGTGGACAAACACCAAAATGGCCTTACCTCCAAATC 1689  
1635 TATCAACCTCAAGTTTCAAGATGATAAATACTAAACATCCGCTCTGTAGACTTCAATA 1694  
1690 CCAGGCATTGCTAAGTTGGCACTTGGAAATACAG---TCTGCAAGCAAGCTCAAAACC 1746  
1695 CCGGGCACTGCAGAGCAGGTACTTGGACTTACAGCTACACGGGTACCAAGTCTCAGTTG 1754  
1747 TTGACCTGACTCTCAGCTCCGCTGGTCCAAATGCTTACCTCCCTCCAAATACAGTGACT 1806  
1755 ATTCAATGACATGACCTCAGCAAGAAAGTCCCAATGAAACCACTCTCTGGGCTAC 1814  
1807 TCCAAACAGAACAGGACACCAAGCAAAATTTCCCAAGCCCTCTGCTAGTTTATGCAAAAT 1866  
1815 TGCTATCATGATGTCAGAGCAGCAGCCAGTACCCCTAGCCGGATGATTTGTAGCAGCGGTC 1874  
1867 CGCAAGGAGCTCCCAATTTCTCAGCGCAGTGTACAGCCCTCATTTGAATCATGATGAAT 1926  
1875 AGCAAGATTTTGTCTGTTCTGGAGCCAAATGTCCAGCCCTCATTAAGAGCTGAACAT 1934  
1927 GGAACAAAGTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATGCTACTAAGAT 1986  
1935 GGACATCAAGTCACTGAGCTCTGGGCAATTTGGGCAATTTGGGCAAGTGTGATCGTTAAAT 1994  
1987 GACGCTCTACTCAAGTATTTCAACTTATGACAGCAATGGTAGTACAGTGTAAA 2046  
1995 GATGGCACTACACAGATACCTTACAGTTATTCAGTAATTTGTAATGATAGATCAGCTAAA 2054  
2047 GTGCGGCTCTGGAGAGTTAAACGAGCCAGAGAGAGTGAATACCCAGCAGAGTGA 2106  
2055 GTGCGTCTCAGGACAAAGAAACAAACCCAGACTGAGCTTAAGA---CAGAAGAACAG 2111  
2107 GCACGTGACATACCTGCTGATTTGAGATGATGAATCAATGAATCCCAAGACCT 2166  
2112 TCTTTATATATATCTGCTATGTTGAAATTTGTAATTTGTAATTTGTAATTTGTAATTT 2171  
2167 GAAATTAATAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAACATCTCTGGA 2226  
2172 GATGTCCAAGAAAGCCATAGAAGCTACAGTGGAAAGACTTCAACAGAGTAACTCTGGA 2231  
2227 GGCTCATTT---TGCGGCTTCTGATGTTCCAAATGCTCCCATACCTGATCTCTCCCACT 2283  
2232 GGGTCTGTTTACTGTGCTGAGGCGCCCTGTATGGGACACAGCTCGTGTGTTTCCCA 2291  
2284 GGCCAAATACCGCACTGAGGCGGAAATTTCAAGGGGCGAGTCTCATTAATTTGATTTGG 2343  
2292 AGTAAAGTCAAGACCTTGAGGCTGAGTTTATAGTG---ATTATATCACTTACATG 2348  
2344 ACAGCTCTGGGATGATTTATGACCATGGAAGCTTCAAGATATATCATTCGATAGT 2403  
2349 ACAGCCCTCTGGCAAGGTTCTCGACATGGAGAGCAATGATATCATCATGATGAGC 2408

2404 ACAGTATTTTGTATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATCTACTGCT 2463  
2409 CAGCATCTCTGGATCTCCAAGAGATTTTAAACAATGCTACTTTAGTGAATCTCCAGT 2468  
2464 CTCATCCCAAGGAGCACTCTGGAAGTCTTTTGTAAACAGAAACATCTACT 2523  
2469 CTGATACCTAAAGAGCTGGCTCAAAAGAGCATTTAAATTCACACAGAACTTTTAA 2528  
2524 TTTGAAATGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTTGATAGGTCGATCTGAA 2583  
2529 ATAGCAATGGCATCCAGCTCTCATTTGCAATCCAGGCAGCAATGAAGCCAGCTCTCACC 2588  
2584 TCAGAAATATCCACATGACAGTATCTTTGTTTATTTCTCTCACA 2630  
2589 TCTGAGGCTCTCAATCGACAGGCTGTCAAGCTTACTTCTCTAGA 2635

RESULT 13  
US-10-055-412B-33  
; Sequence 33, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055.412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-055-412B-33

Query Match 29.9%; Score 840.6; DB 4; Length 3022;  
Best Local Similarity 60.5%; Pred. No. 3.5e-245;  
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;

91 TCACCTCATTCAGCTGAACAAATGGCTATGAGGCAATGCTGTGCAATCGACCCCAAT 150  
81 TCCATGTCGATCTCAACAGCAATGGATACGAGGTGTGCTCATTTGCCATTAACCCAGT 140  
151 GTGCAGAGATGAACAACACTCATTTCAACAATAAGGACATGTGTGACCCAGGATCTCTG 210  
141 GTGCAGAGGAGCAAGGCTCATCCAGCATAAAGGAATGGTAATCAAGCTTCTACC 200  
211 TATCTGTTTGAAGCTTACAGGAAGGATTTTATTTCAAAAATGTGTCATTTTGTCTCT 270  
201 TACCTGTTTGAAGCCAGCAAGGAAGAGTTTATTTCAAGCAATAAGCATATTAGTCCG 260  
271 GAAACATGGAAGCAAGAGCTGACTATGTGAGCAACAACTTGAGACCTTACAAAATGCT 330  
261 ATGACCTGGAAGTCAAAATCTGAGTACTTAAATGCAAAACGAGAAATCGTACGAAAGCA 320  
331 GATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAGCAGATG 390  
321 GACGTATAGTTGCGGATCTCTCACTGCAACATGGAGACGACCCCTACACCTTCAGTAT 380  
391 GGCACACTGGAGAGAGGGTGAAGATCCACTCTACTCTGATTTTTCATTGAGGAAAA 450  
381 GGACAGTGTGGGAGCAGAGGACAGTATACACTTCACTCCAAACTTCTTACTCATGAT 440  
451 AAGTTAGTGAATATGAGCAACAAAGTAGGCAATTTCTCCATGAGTGGGCTCATCTACGA 510  
441 AACTTGGCTATCTATGAGACCCCGAGGACAGTCTTTGTCATGAGTGGGCCCCATCCGG 500  
511 TGGGAGATTTTGGACAGGTACAAATATGATGAGAAATTTCTACTATCCA---ATGAAAGA 567

1639	CA-----AGTGGCTTTTGTAGTGGCAAAAACACAAAATGGCTACCTCCAAATC	1689
1635	TATACACCTCAGATTTCACAGATGATAAATAAATACATCGGCTGTCTAGACTTCAATA	1694
1690	CCAGGCAATGCTAAGTTGGCACTTGAATACAG---TCTGCAAGCAAGCTCAAAAC	1746
1695	COGGCACTGAGAGACAGGTACTTGGACTTACAGCTACACGGGTACCAAGTCTCAGTTG	1754
1747	TTGACCTGCTGCTGCTCCGCTGCTCCAAATCTACCTGCTCCAAATCTCCTGCTGCT	1806
1755	ATTCAATGACAGTGAACCTCGAGCAAGAGTCCACATGGAACCACTCCTGGGCTAC	1814
1807	TCCAAAACGAAACAAAGGACACCAAGCAATTTCCCGAGCTCTGCTGCTGCTGCT	1866
1815	TGCTACATGAGTTCAGAGCACAGCCAGTACCTAGCGGATGATTGTGTACGACGGGTC	1874
1867	CGCGAGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTAATGAACTAGT	1926
1875	AGCCAAAGGATTTTCCCTGCTTCTGGAGCAATGTACAGCCCTCATAGAGCTGAACAT	1934
1927	GGAAAACAGTTTACCTTGGAACTACTGGATAATGAGAGAGGCTGCTGCTGCTGCT	1986
1935	GGACATCAAGTCACTTGGAGCTCTGGGCAATGTACAGCCCTCATAGAGCTGAACAT	1994
1987	GACGGTGTCTACTCAAGGTATTTCACACTTATGACACGAATGTTAGATACAGTGTAAA	2046
1995	GATGGCATCTACAAAGATACCTTACAGATTATCTGGAATGTTAGATACAGCTTAAA	2054
2047	GTGCGGCTCTGGAGAGTTCACGACGACGAGAGAGTGTATCCCGAGCAGAGTGGGA	2106
2055	GTGCGTGTCCAGGCAAAAGAAACAAACACAGCTGAGCTTAAAG---CAGAAGAACAG	2111
2107	GCATGTACATACCTGGCTGATTTGAAATGATGAATAATCAATGGAATCCACCAAGACCT	2166
2112	TCCTTATATATCTGGCTATGTGGAATATGTTAAATTTGCTGATTCATCCACAGACCA	2171
2167	GAAATTAATGAAGATGATTTCAACACAAAGAGTGTGTTTCAGCAGAAATCTCCGGA	2226
2172	GATGTCCAAAGAAAGGACATAGAGCTACAGTGAAGACCTTCAACAGATTAACCTCTGA	2231
2227	GGCTCAT---TGTTGGCTTCTGATGTCCCAATGCTCCCAATCTCTTCTCCACCT	2283
2232	GGTGTCTTACTGTCTGGAGCGCCCTGATGGGACACGCTCGTGTGTTCCACCA	2291
2284	GSCAAATCACGACCTGAGCGGGAATTCACGGGGCAGTCTCATTAATCTGACTTGG	2343
2292	AGTAAAGTCAAGACTTGGAGCTGAGTTTATAGGTG---ATTATATTCACCTTACATGG	2348
2344	ACAGCTCTGGGGATGATATGACCATGGACAGCTCAAGTATATCATTCGAATAAGT	2403
2349	ACGGCCCTGGCAAGGTTCTCGACAATGGAGAGACATAGATATCATCAGATGAGC	2408
2404	ACAAGTATCTTGATCTCAGACAGAGTTCAATGAATCTTCAAGTGAATCTACTGCT	2463
2409	CAGCATCTCTGATCTCCAGAGATTTTAAATGCTTACTTGTAGTGAATGCTTCCAGT	2468
2464	CTCATCCCAAGAGAGCCAACTCTGAGGAGTCTTTTGTTTAAACCAAGAAACATTACT	2523
2469	CTGATACCTTAAAGAGCTGGCTCAAAAGAGCAATTTAAATTCAAACCAAGAACTTTAA	2528
2524	TTTGAATAATGGGACAGATCTTTTCAATGCTTATTCAGGCTGTTGATAGGTCGATCTGAAA	2583
2529	ATAGCAATGGCATCCAGCTCTACATTTGCAATCCAGGACAGCAATGAAGCAGTCTCACC	2588
2584	TCAGAATAATCCAACTTTCAGGCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	2630
2589	TCTGAGGCTCTCCAACTTCGACAGGCTGTCAAGCTTACTTCTCTAGA	2635

  

501	TGGGGAGTATTGATGATATACGCTGAGCGGTCACTTTACATTTCTAGAAAGAACT	560
568	ATACAGCAGTAAAGATTTTACAGAGTATTTACTGGTACAAATGTAGTAAAGAGTGTGAG	627
561	ATAGAAGCAACAGGTGCTCGCGCAGCATCACAGCAAGAGGTGGTCCAGAGTGTGAG	620
628	GGAGGAGCTGTTACACCAAAAGATGACATTTCAATAAAGTAAACAGGACTTATGAAAAA	687
621	AGAGGAGCTGTGTGCAAGGGGCTGCGCGGTGACTCGAAGACACGGCTGTATGAACC	680
688	GGATGTGATTTGTTCTCCAAATCCCGCCAGACGAGAGAGGCTTCTATATGTTTGCACAA	747
691	AAATGTACATTTATCCAGACAAATATACAGACAGCTGGGGCTCCATATGTTTATGCAA	740
748	CATGTTGATTTCTATAGTGAATCTGTACAGNACAAACCAACAAAGAGCTCCAAAC	807
741	AACCTCAATTTCTGTTGAAATTTTGCACAGAAATATACCAATATGCGAAGCCCCAAC	800
808	AAGCAAAATCAAAATGCAATCTCCGAAGCACATGGAAAGTATCGGTGATTTCTGAGGAC	867
801	CTACAAAACAAATGTGCAATTCGAGAGACAGCTGGGATGTAATCAAGACGTTCTGTGAC	860
868	TTTAAAGAAACCACTCCTATG-----ACAAACAGCCACCAATCCCACTTCTCATTTG	921
861	TTTCAAGATGCCCTCCCATGAGAGGACAGAAAGCCCTCCTCCACTACATTTTATCTG	920
922	CTGAGATTTGGACAAAGAAATGTGTTTGTAGTCTTGCACAAATCTGGAAGCATGGGACT	981
921	CTCAAGTCCAGAGGCGAGTGTGCTGCTGCTGATTAATCTGGAAGCATGGACAAA	980
982	GGTAAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCGAGAGTGTGAG	1041
981	GAAGACGCTCTATTCGAATGAATCAAGCAGCAGACTGTACTTAACTCAATTTGTGAA	1040
1042	CTGGGCTCTGGTGGGATGGTGACATTTGACAGTGTGCGCATGCTGCAAGTGAATCTC	1101
1041	AAGAGTCTATGTTGATTTAGTACATTTGACAGCGCTGCCACATCCAAATTTATCTA	1100
1102	ATACAGATAAAGTGGAGTGACAGGACACACTCGCCAAAGATTAACCTGACAGAGCT	1161
1101	ATAAAATAACGAGTAGTGTGACTTACCAAAAGATCAACGCAACCTCCCAACAGGCT	1160
1162	TCAGAGGAGCTCCATCTGAGCGGGCTTGCATCGGCAATTTATGTAATTA---GGAAG	1218
1161	TCTGTGGAATCTCAATTTGCCATGACTCCAGGAGGATTTCAAGCAATTAACCTCCAGT	1220
1219	AAATATCCAATGTAGTCTGAATTTGATTTGCTGATGCGGCAATTTATGTAATTA---GGAAG	1278
1221	GACAGACACTTCGGTTCTGAGATCGTATTTGCTGACAGATGGGGAAGATTAATGGAATA	1280
1279	AGTGGGTGTTTAAACGAGTCAAAACAAAGTGGTGCATCATCCACAGCTCGCTTTGGGG	1338
1281	CGTTCCTGTTTGGGCGCTCTCTCCGACGGGTGCCATCATCCACACATCGCTCTGGGG	1340
1339	CCCTGCGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGATAT	1398
1341	CTTCCGCTGCCGAGACTGAGAGCTGTGCGACATGACAGAGGCTTCTGTTCTAT	1400
1399	GCTTTCAGATCAAGTTCAAGAAATGGCTCATTTGATGCTTTTGGGCGCTTTTCATCAGGA	1458
1401	GCCAAACAAAGACCT-----AAACAGCTTTATCGATGCTTTCAGTAGAATTTCACTACA	1454
1459	AATGGAGCTGTCTCTGAGCGCTCCATCCAGCTTGAAGTAAAGGATTAACCTCCAGAAC	1518
1455	AGTGGCAGCTCTCCAGAGGCTCTGCGAGTTGAGAGCAAGAGCTTCGATGTGAGAGCA	1514
1519	AGCCAGTGGATGAATGACAGAGTGTGAGAGCAGCCGTGGGAAGGACACTTGTGTTT	1578
1515	GGGCGATGGATAACGGTACAGTACCTCTGAGACAGTACCGTCCGCAACGACAGCTCTTT	1574
1579	CTTATCACTCGGACAAACGAGCGCTCCCAATCTCTCTGAGATCCCGAGTGGAGAGAG	1638
1575	GTATATCACTGGATGTAAGAAAGGACGAAATCATTTCTCAAGATCCAAAGGAAAGAAA	1634



; Patent No. 6309857  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; FILE OF INVENTION: Activated Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0052  
 ; CURRENT APPLICATION NUMBER: US/09/193,562D  
 ; CURRENT FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 29  
 ; LENGTH: 3418  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-193-562D-29

Query Match 29.6%; Score 832.6; DB 3; Length 3418;  
 Best Local Similarity 59.9%; Pred. No. 1e-242;  
 Matches 1603; Conservative 0; Mismatches 979; Indels 93; Gaps 9;

QY	46	GTGTTCACTCTTCATCTTCCACCTTCTAGAGGGCCCTGAGTAATTCACCTCATTTACAGCTG	105
DB	37	GTGATCTCTTCTTATTCCTTGTCTCTCGCCTGTATTGAAAAGCTCACTGGTAACCTTG	96
QY	106	AACAAATGGCTATGAAGGCATTTGCGTTGCAATCGACCCCAATGTCGCAGAAATGAA	165
DB	97	AATAACAATGATATGATGGCAATGTGATTTGCAATTAATCCCAAGTACCCAGAAGATGA	156
QY	166	ACACTCATTCACAAATAAAGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCT	225
DB	157	AAACTCATTTCAAAACATAAAGAAATGGTAACCTGAAGCACTACTCACTCTGTTTCATGCC	216
QY	226	ACAGGAAGCCATTTTATTTCAAATGTTGCGCAATTTGATTCCTCGAAACATGGAAGACA	285
DB	217	ACCAACAAGAGCTTATTTTCAGGAATGTAAGCATTTTAAITCCAAATGACCTACAATCA	276
QY	286	AAGGCTGACTATGTGAGACCAAACTTCAGACCTCAAAATGCTGTATGTTCTGGTTGCT	345
DB	277	AAATCTGAGTACTTAATCCCNAAAACAGAAACATATGACCGGCAGATGTCTAGTTGCT	336
QY	346	GAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTGACGAGATGGGCAACTGTGGAG	405
DB	337	GATCTTTACCTGAAATACGGAGATGATCCCTATACACTTCAATGGAACAATGTGGAGAT	396
QY	406	AAGGGTGAAGGATCCACCTCACTCCTGATTTCAATTCGAGAAAAAGTTAGCTGAAAT	465
DB	397	AAAGGCAATATATACATTTTACTCCAAACTCTCTGTTGACTAATACTTGGCTACCTAT	456
QY	466	GGACCACAAAGGTAGGGCATTTTGCCATGAGTGGGCTCATCTACATGCGGGAGTATTTGAC	525
DB	457	GGGCTCGAGGTAAAGATTTTGCCATGGGTGGGCCCATCTCCGGTGGGAGTATTTGAT	516
QY	526	GAGTCAATPAATGANGAGAAATCTACTTATCCAAATGGA--AGAATACAGCAGTAAAGA	582
DB	517	GAGTAAATGTGACCCAGCCATTTCTATATTTCCAGAGAAACACTCTCGAAGCAACAAGA	576
QY	583	TGTTCCAGCAGGTATTACTGGTACAAATGTAGTAAAGAAGTGTTCAGGGAGGCAGCTGTTAC	642
DB	577	TGTTCCACTCGTATTACTCTTTTACATGGTTTGAACGAATGCAAGGGGGCCAGCTGTATA	636
QY	643	ACCAAAGATGCACATTCATTAAGTAAACAGGACTCTATGAAAAGAGATGTGATTTGTT	702
DB	637	GCACGACCATTCAGACGTGACTCACAGACAGGGCTGTATGAAGCAAAATGTACATTATC	696
QY	703	CTCCAAATCCCGCAGACGAGAGAGGCTTCTATAATGTTTGCACAAACATGTTGATTTATA	762
DB	697	CCAAAGAGATCCAGACTGCCAAGGAATCCATTGTTGTTTATGCAAAATCTTGATCTGTG	756
QY	763	GTTGAAATCTGTACAGAACAAACACAAAGAGCTCCAAACAGCAAAATCAAAA	822
DB	757	ACTGAATTTTGTACTGAAAAAACAACAATAAAGAGCTCCAAACCTATATACAAATG	816

1897 ACAGTCATTACCCCTAGCCAGTAAGTGTATTGATGCTGTCAGTCAAGGGTTTCTTCCT 1956

1895 ATTCTCAGGGCCAGTGTCAAGCCCTCAGTGAATCAGTGAATGGAAAAACAGTTACTGTG 1944

1957 GTTCTGGGAATCAATGTAAACAGCCATTATAGAAATGAAGAGGACATCAAGTAACATTG 2016

1945 GAACTACTTGGATAATGGAGCAGGTGCTGATCTCTACTAAGATGACGGTGTCTACTCAAGG 2004

2017 GAGCTCTCGACAATGGCGCAGGTGCTGATTCTGTCAAGAAATGATGGCACTCTACTCAAGG 2076

2005 TATTTTCAACAATTATGACACGAAATGGTATACACAGTGTAAAAGTGGCGGCTCTGGGAGGA 2064

2077 TATTTTTCAGATATACCATGGAAATGGTATATACAGTTTAAAGTGTCTTACCAGGCAAGA 2136

2065 GTTAAACGACCGACGAGGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTTGGC 2124

2137 AAAAACACAGCTAGGC-----TAAGTCAACAACAGAAATAAAGTCTGTATGTACCCGCGC 2190

2125 TGGATTGGAATGATGAATAACAATGGAAATCCACCAGACCTGAAATTAATAAGATGAT 2184

2191 TATGCTGAAATGGAAAAATTATCTGAACCCATCCAAACCTTGAAGTCAAGATGATGTG 2250

2185 GTTCAACAACAGCAAGTGTGTTTCAGCAGAAACATCTCGGAGGCTCAATTTGTGGCTTCT 2244

2251 GAAGGAGCTCAACACAGACGATTCAGCAGACTCACCTCTGGAGGGTGGTTACTGTATCA 2310

2245 GATGT---CCCAATGCTCCCATACCTGTATCTTCCCACTGGGCGCAATCACCGACCTG 2301

2311 GGAGTGCTTCTTAATGGTAATCAATCTCAGGTGTTCTCACCTGGTAAATTTAGACCTC 2370

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2371 GAGGCTAAGTTTCAAGGAG---ATCATATTCAACTTTTCATGGACTGCCCTGGCAGGTC 2427

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2608 TTCATATTTGCAATTCAGCCATCCATGAAGCCAAATGCACCTCAGAGGTTTCAACATT 2667

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; Sequence 29, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

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Perfect score: 2813

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Searched: 3403857 seqs, 2557783690 residues

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Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	2812	100.0	2854	15	US-10-106-698-1971
2	2812	100.0	3111	9	US-09-823-356-25
3	2812	100.0	3111	9	US-09-981-353-191
4	2812	100.0	3111	15	US-10-235-994-25
5	2812	100.0	3267	9	US-09-764-868-22
6	2807.2	99.8	3007	14	US-10-055-412B-27
7	2807.2	99.8	3311	9	US-09-922-217-1056
8	2807.2	99.8	3311	9	US-09-833-263-1056
9	2807.2	99.8	3311	13	US-10-025-380-1056
10	2807.2	99.8	3311	15	US-10-393-590-11
11	2807.2	99.8	3311	15	US-10-393-590-12
12	2807.2	99.8	3311	15	US-10-393-590-46
13	2807.2	99.8	3311	15	US-10-393-590-47

14	2807.2	99.8	3311	15	US-10-393-567-11	Sequence 11, Appl
15	2807.2	99.8	3311	15	US-10-393-567-12	Sequence 12, Appl
16	2807.2	99.8	3311	15	US-10-393-567-46	Sequence 46, Appl
17	2807.2	99.8	3311	15	US-10-393-567-47	Sequence 47, Appl
18	2807.2	99.8	3311	15	US-10-394-087-11	Sequence 11, Appl
19	2807.2	99.8	3311	15	US-10-394-087-47	Sequence 47, Appl
20	2807.2	99.8	3311	15	US-10-394-087-12	Sequence 12, Appl
21	2807.2	99.8	3311	15	US-10-394-087-46	Sequence 46, Appl
22	2797.8	99.5	2867	15	US-10-106-698-351	Sequence 47, Appl
23	2743	97.5	2745	14	US-10-270-595-5	Sequence 351, Appl
24	2622.6	93.2	3109	15	US-10-106-698-2111	Sequence 5, Appl
25	2489.2	88.5	4569	10	US-09-867-034-3	Sequence 2111, Appl
26	2489.2	88.5	4569	10	US-10-276-115-3	Sequence 3, Appl
27	1743	62.0	2931	14	US-10-270-595-1	Sequence 1, Appl
28	1512	53.8	1512	16	US-10-305-720-850	Sequence 850, Appl
29	1310.2	46.6	3169	9	US-09-981-353-53	Sequence 53, Appl
30	1310.2	46.6	3169	15	US-10-235-994-15	Sequence 15, Appl
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33	1310.2	46.6	3218	15	US-10-087-080-33	Sequence 33, Appl
34	1308.6	46.5	3043	13	US-10-025-167-16	Sequence 16, Appl
35	1308.6	46.5	3181	13	US-10-025-167-18	Sequence 18, Appl
36	1307.8	46.5	2751	17	US-10-482-669-2	Sequence 2, Appl
37	1307.8	46.5	2754	15	US-10-345-680-33	Sequence 33, Appl
38	1304	46.4	3265	9	US-09-989-722-378	Sequence 378, Appl
39	1304	46.4	3265	9	US-09-989-723-378	Sequence 378, Appl
40	1304	46.4	3265	9	US-09-989-729-378	Sequence 378, Appl
41	1304	46.4	3265	9	US-09-989-727-378	Sequence 378, Appl
42	1304	46.4	3265	9	US-09-989-731-378	Sequence 378, Appl
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45	1304	46.4	3265	9	US-09-990-442-378	Sequence 378, Appl

#### ALIGNMENTS

##### RESULT 1

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 2812; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 2

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Coxley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 2812; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 1081 GCCCATGTACAAAGTGAATCTATACAGATAAAGTGGCAGTGACAGGACACACTCGCC 1140  
Db 1090 GCCCATGTACAAAGTGAATCTATACAGATAAAGTGGCAGTGACAGGACACACTCGCC 1149

Wed Oct 20 10:24:45 2004

QY	1141	AAAAGATTACCTGAGCAGCTTCAGAGGAGCGTCCATCTGACGGGCTTCGATCGCA	1200
Db	1150	AAAAGATTACCTGAGCAGCTTCAGAGGAGCGTCCATCTGACGGGCTTCGATCGCA	1209
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATGTGCTGACGGAT	1260
Db	1210	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATGTGCTGACGGAT	1269
QY	1261	GGGAGACACACTATAAGTGGGTCTTTAAACAGAGTCAAAACAAAGTGGTGCATCATC	1320
Db	1270	GGGAGACACACTATAAGTGGGTCTTTAAACAGAGTCAAAACAAAGTGGTGCATCATC	1329
QY	1321	CACACAGTCGCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGGAGCTGTCCAAATGACA	1380
Db	1330	CACACAGTCGCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGGAGCTGTCCAAATGACA	1389
QY	1381	GGAGGTTACAGACATATGCTTTCAGATCAAGTTCAGAACATGGCTCATTTGATCTTTT	1440
Db	1390	GGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACATGGCTCATTTGATCTTTT	1449
QY	1441	GGGGCCCTTTTATCAGGAATCGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	1450	GGGGCCCTTTTATCAGGAATCGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1509
QY	1501	GGATTAAACCTCCAGAACAGCGAGTGAATGGACAGTGTGAGACAGCCGTG	1560
Db	1510	GGATTAAACCTCCAGAACAGCGAGTGAATGGACAGTGTGAGACAGCCGTG	1569
QY	1561	GGAAAGGACACTTTGTTCTTATCAGCTGAGAACAGCGCCCTCCCAAAATCTTCTCTGG	1620
Db	1570	GGAAAGGACACTTTGTTCTTATCAGCTGAGAACAGCGCCCTCCCAAAATCTTCTCTGG	1629
QY	1621	GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAACCAAAATGGGCTTAC	1680
Db	1630	GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAACCAAAATGGGCTTAC	1689
QY	1681	CTCCAAATCCAGGCAATTTGTAAGTGGACATTGGAATATACAGTCTGCAAGCACTCA	1740
Db	1690	CTCCAAATCCAGGCAATTTGTAAGTGGACATTGGAATATACAGTCTGCAAGCACTCA	1749
QY	1741	CAAACTTGACCTGACTGTGACGTCGGCTGCTCAATGCTACCTGCTCCCAATTACA	1800
Db	1750	CAAACTTGACCTGACTGTGACGTCGGCTGCTCAATGCTACCTGCTCCCAATTACA	1809
QY	1801	GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCAAGCCCTCTGGTAGTTATGCA	1860
Db	1810	GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCAAGCCCTCTGGTAGTTATGCA	1869
QY	1861	AATATTCCCAAGGAGCTCCCAATTTCTCAGGCGAGTGTACAGCCCTGATGATCA	1920
Db	1870	AATATTCCCAAGGAGCTCCCAATTTCTCAGGCGAGTGTACAGCCCTGATGATCA	1929
QY	1921	GTGAATGAAAAACAGTTACTGGAATCTGGAATATGAGCAGAGTGTGATGCTACT	1980
Db	1930	GTGAATGAAAAACAGTTACTGGAATCTGGAATATGAGCAGAGTGTGATGCTACT	1989
QY	1981	AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACAGAAATGGTAGTACGT	2040
Db	1990	AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACAGAAATGGTAGTACGT	2049
QY	2041	GTAAAAGTGGGGCTCTGGGAGGAGTTAAACGACGAGGAGGAGTATACCCAGCAG	2100
Db	2050	GTAAAAGTGGGGCTCTGGGAGGAGTTAAACGACGAGGAGGAGTATACCCAGCAG	2109
QY	2101	AGTGAGCACTGTACATACCTGGCTGGATTTGAGATGATGAAATACAAATGGAATCCACA	2160
Db	2110	AGTGAGCACTGTACATACCTGGCTGGATTTGAGATGATGAAATACAAATGGAATCCACA	2169
QY	2161	AGACCTGAAATTAATAAGGATGATGTCAACAACAGCAAGTGTGTTTTCAGCAGAACATCC	2220
Db	2170	AGACCTGAAATTAATAAGGATGATGTCAACAACAGCAAGTGTGTTTTCAGCAGAACATCC	2229
QY	2221	TCGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTCTTCCCA	2280
Db	2230	TCGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTCTTCCCA	2289
QY	2281	CTGGCCAAATCACCGACCTGAGGCGGAAATTCACGGGGCAGCTCTCATTAATCTGACT	2340
Db	2290	CTGGCCAAATCACCGACCTGAGGCGGAAATTCACGGGGCAGCTCTCATTAATCTGACT	2349
QY	2341	TGGACAGCTCTGGGGATGATTTATGACCATGGAACAGCTCAAAAGTATATCATTCGAATA	2400
Db	2350	TGGACAGCTCTGGGGATGATTTATGACCATGGAACAGCTCAAAAGTATATCATTCGAATA	2409
QY	2401	AGTCAAGTATCTTGTATCTCAGACAGAAAGTTCATGAATCTCTTCAAGTGAATCTACT	2460
Db	2410	AGTCAAGTATCTTGTATCTCAGACAGAAAGTTCATGAATCTCTTCAAGTGAATCTACT	2469
QY	2461	GCTCTATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAACATT	2520
Db	2470	GCTCTATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAACATT	2529
QY	2521	ACTTTGAAAAATGGCACAGATCTTTTCAATGCTATTCAGGCTGTGATAAGTTCGATCTG	2580
Db	2530	ACTTTGAAAAATGGCACAGATCTTTTCAATGCTATTCAGGCTGTGATAAGTTCGATCTG	2589
QY	2581	AAATCAGAAAAATCCAAATTCGACGAGTATCTTTTGTGTTTATTCCTCCACAGACTCGCCA	2640
Db	2590	AAATCAGAAAAATCCAAATTCGACGAGTATCTTTTGTGTTTATTCCTCCACAGACTCGCCA	2649
QY	2641	GAGACACCTAGCTCTGATGAAACGCTCTCTCTGCTCTCTTAATTAATCAATCAACAGCACC	2700
Db	2650	GAGACACCTAGCTCTGATGAAACGCTCTCTCTGCTCTCTTAATTAATCAATCAACAGCACC	2709
QY	2701	ATTCTGCGCAATCACATTTTAAAAATTTATGCGAAAGTGTGAGAGAACTGACAGCTGTCA	2760
Db	2710	ATTCTGCGCAATCACATTTTAAAAATTTATGCGAAAGTGTGAGAGAACTGACAGCTGTCA	2769
QY	2761	ATAGCCTAGGCTGAAATTTTGTGATGATAAATAAATAATCAATTCATCTT 2812	
Db	2770	ATAGCCTAGGCTGAAATTTTGTGATGATAAATAAATAATCAATTCATCTT 2821	
RESULT 3			
US-09-981-353-191			
; Sequence 191, Application US/09981353			
; Patent No. US20020160382A1			
; GENERAL INFORMATION:			
; APPLICANT: Lasek, Amy W.			
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER			
; FILE REFERENCE: PA-0038 US			
; CURRENT APPLICATION NUMBER: US/09/981,353			
; CURRENT FILING DATE: 2001-10-11			
; NUMBER OF SEQ ID NOS: 194			
; SOFTWARE: PERL Program			
; SEQ ID NO 191			
; LENGTH: 3111			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: misc feature			
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1			
US-09-981-353-191			
Query Match 100.0%; Score 2812; DB 9; Length 3111;			
Best Local Similarity 100.0%; Pred. No. 0;			
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	GAATATCAGGAGATGTACAGCAATGGGCGCAATTAAGAGTCTGTGTTTCACTCTTGAAT	60
Db	10	GAATATCAGGAGATGTACAGCAATGGGCGCAATTAAGAGTCTGTGTTTCACTCTTGAAT	69
QY	61	CTTACCTTCTAGAGGGCGCTCTGAGTAATTCATCTTACCTGAGTGAACCAACATGGCTAT	120



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QY 2281 CCTGGCCAAATCACCGACCTGAAGCGGAATTCACGGGGCAGTCTCATTAATCTGACT 2340
Db 2290 CCTGGCCAAATCACCGACCTGAAGCGGAATTCACGGGGCAGTCTCATTAATCTGACT 2349
QY 2341 TGGACAGCTCTGGGGATGATTATGACCATGGACAGCTCAACAGTATATCATTCGAATA 2400
Db 2350 TGGACAGCTCTGGGGATGATTATGACCATGGACAGCTCAACAGTATATCATTCGAATA 2409
QY 2401 AGTCAAGTATCTTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460
Db 2410 AGTCAAGTATCTTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2469
QY 2461 GCTCTATCCCAAGGAAGCCAACTCTGAGGAAGCTTTTCTTTAAACCGAGAAACATT 2520
Db 2470 GCTCTATCCCAAGGAAGCCAACTCTGAGGAAGCTTTTCTTTAAACCGAGAAACATT 2529
QY 2521 ACTTTTGAATGGCACAGATCTTTTTCATTTGCTATTTTCAGGCTGTTGATAAGTTCGATCTG 2580
Db 2530 ACTTTTGAATGGCACAGATCTTTTTCATTTGCTATTTTCAGGCTGTTGATAAGTTCGATCTG 2589
QY 2581 AAATCAGAAATATCAACAAATTCACAGAGTATCTTTTCTTCCACAGACTCCGCCA 2640
Db 2590 AAATCAGAAATATCAACAAATTCACAGAGTATCTTTTCTTCCACAGACTCCGCCA 2649
QY 2641 GAGACACCTAGTCTCTGATGAAGAGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700
Db 2650 GAGACACCTAGTCTCTGATGAAGAGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2709
QY 2701 ATTCTGGCATTCACATTTTAAATTTATGGAAGTATGGAAGTATGGAAGTATGGAAGTATG 2760
Db 2710 ATTCTGGCATTCACATTTTAAATTTATGGAAGTATGGAAGTATGGAAGTATGGAAGTATG 2769
QY 2761 ATAGCCTAGGCTGAATTTTGTGAGATAAATAAATAAATCAATTCATCCTT 2812
Db 2770 ATAGCCTAGGCTGAATTTTGTGAGATAAATAAATAAATCAATTCATCCTT 2821

RESULT 4
US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

Query Match 100.0%; Score 2812; DB 15; Length 3111;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGCGCAATTTAAGAGTTCGTGTTCAATCTTGATT 60
Db 10 GAAATCACAGGAGATGTACAGCAATGGGCGCAATTTAAGAGTTCGTGTTCAATCTTGATT 69
QY 61 CTTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTCATTTAGCTGGAACAACAAATGGCTAT 120
Db 70 CTTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTCATTTAGCTGGAACAACAAATGGCTAT 129
QY 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAAGATGAAACACTCATTCACACAA 180
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Db 130 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAAGATGAACACTCATTCACACAA 189
QY 181 ATAAGGAGCATGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTTACAGGAAAGCGATT 240
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QY 241 TATTTCAAAATGTTGCCATTTTGAATCTCTGAAACATGGAAGACAAAGCGTGAATGTG 300
Db 250 TATTTCAAAATGTTGCCATTTTGAATCTCTGAAACATGGAAGACAAAGCGTGAATGTG 309
QY 301 AGACCAAACTGTGAGACCTTACAAAATCTGATGTTCTGGTGTGAGTCTTACTCTCTCA 360
Db 310 AGACCAAACTGTGAGACCTTACAAAATCTGATGTTCTGGTGTGAGTCTTACTCTCTCA 369
QY 361 GGTATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTGAAAGGATC 420
Db 370 GGTATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTGAAAGGATC 429
QY 421 CACCTCACTCTCTGATTTTCAATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG 480
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QY 481 GCATTTGTCATGATGGGCTCATCTACATGGGAGTATTTGACGAGTACAAATATGAT 540
Db 490 GCATTTGTCATGATGGGCTCATCTACATGGGAGTATTTGACGAGTACAAATATGAT 549
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QY 601 CGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTACCAAAAGATGCAATTC 660
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QY 661 AATAAGTAACAGGACTCATGAAAGAGATGTGAGTGTGTTCTCCAATCCGCCAGAG 720
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Db 790 CAAAAACCAACAAAGAGCTCCAAAACAGCAAAATCAAAAATGCAATCTCCGAAGACA 849
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QY 961 AAATCTGGAAGCATGGCAGTGTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1020
Db 970 AAATCTGGAAGCATGGCAGTGTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1029
QY 1021 TTCTGCTGTCAGACAGTGTGAGTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTGCT 1080
Db 1030 TTCTGCTGTCAGACAGTGTGAGTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTGCT 1089
QY 1081 GCCCATGTACAAAGTGAACCTCATACAGATAAACAAGTGGCAGTGAACGGGACACACTCGCC 1140
Db 1090 GCCCATGTACAAAGTGAACCTCATACAGATAAACAAGTGGCAGTGAACGGGACACACTCGCC 1149
QY 1141 AAAAGATTACCTGACAGAGCTTTCAGGAGGAGCGTCCATCTTGCAGCGGGCTTCGATCGGCA 1200
Db 1150 AAAAGATTACCTGACAGAGCTTTCAGGAGGAGCGTCCATCTGACGCGGGCTTCGATCGGCA 1209
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Db 1210 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTGCTGCTGACGGAT 1269
QY 1261 GGGGAAGACAACTATAAGTGGGTGCTTTAAACAGAGTCAAAACAAAGTGGTCCATCATC 1320
Db 1270 GGGGAAGACAACTATAAGTGGGTGCTTTAAACAGAGTCAAAACAAAGTGGTCCATCATC 1329
QY 1321 CACACAGTCGCTTTGGGGCCCTCTGACAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA 1380
Db 1330 CACACAGTCGCTTTGGGGCCCTCTGACAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA 1389
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Db 1390 GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATAGGCTCATGTGCTTTT 1449
QY 1441 GGGGCCCTTTTATCAGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500
Db 1450 GGGGCCCTTTTATCAGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1509
QY 1501 GGATTAACCTCCAGACACAGCAGTGGATGAATGGACAGATGATCGTGGACAGCACCGTG 1560
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QY 1561 GGAAGGACACTTTGTTTCTTATCAGCTGACACAGCAGCCTCCCAAAATCCTTCTG 1620
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QY 1621 GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAAACACCAAAATGGGCTAC 1680
Db 1630 GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAAACACCAAAATGGGCTAC 1689
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Db 1690 CTCCTAATCCAGGCAATGCTAAGTGTGGCACTTTGAGTGGACAAAACACCAAAATGGGCTAC 1749
QY 1741 CAAACCTTGACCTGACTGCTCAGTCCCGTGGTCCAAATGCTACCTGCTCCAAATTA 1800
Db 1750 CAAACCTTGACCTGACTGCTCAGTCCCGTGGTCCAAATGCTACCTGCTCCAAATTA 1809
QY 1801 GTGACTTCCAAACGAAACAGGACACCAAGAAATCCCGAGCCCTCTGTAGTGTATGCA 1860
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QY 1921 GTGAATGGAAGAAACAGTTTACCTTGGAACTTACTGGAATGAGAGAGTGTCTGATCT 1980
Db 1930 GTGAATGGAAGAAACAGTTTACCTTGGAACTTACTGGAATGAGAGAGTGTCTGATCT 1989
QY 1981 AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACCAATGGTAGATACAGT 2040
Db 1990 AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACCAATGGTAGATACAGT 2049
QY 2041 GTAAAGTCGGGCTCTGGAGGAGTTAAACGAGCCAGCAGGAGTGTATCCCGAGCAG 2100
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Db 2110 AGTGGAGCACTGTATACATACCTTGGCTGGAATTCAGATGATGAATGAATGGAATCCACCA 2169
QY 2161 AGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC 2220
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Db 2230 TCGGGAGGCTCATTTTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTTCCCA 2289
QY 2281 CCTGGCCAAATCACCAGCTTGAAGGCGAAATTCACGGGGGAGTCTCATTAATCTGACT 2340
Db 2290 CCTGGCCAAATCACCAGCTTGAAGGCGAAATTCACGGGGGAGTCTCATTAATCTGACT 2349
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Db 2410 AGTACAAGTATTTCTGATCTCAGAGACAAGTTCATGAATCTCTTCAAGTGAATACTACT 2469
QY 2461 GCTCTCATCCCAAGGAAGCCACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT 2520
Db 2470 GCTCTCATCCCAAGGAAGCCACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT 2529
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QY 2701 ATTCTGGCATTCACATTTTAAATAATATGTTGGAAGTGGATAGGAACTGACAGCTGTCA 2760
Db 2710 ATTCTGGCATTCACATTTTAAATAATATGTTGGAAGTGGATAGGAACTGACAGCTGTCA 2769
QY 2761 ATAGCCTAGGCTGAATTTTGTTCAGATAAATAAATAATCATTCATCTT 2812
Db 2770 ATAGCCTAGGCTGAATTTTGTTCAGATAAATAAATAATCATTCATCTT 2821
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## RESULT 5

US-09-764-868-22

; Sequence 22, Application US/09764868

; Patent No. US20020168711A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PT232

; CURRENT APPLICATION NUMBER: US/09/764,868

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - refer to PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1510

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 22

; LENGTH: 3267

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-868-22

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Query Match 100.0%; Score 2812; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCGTGTTCAATCTTGATT 60
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QY 61 CTTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCAGCTGACCAATGGGCTAT 120
Db 71 CTTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCAGCTGACCAATGGGCTAT 130
QY 121 GAAGGATTCCTGTGCAATCGACCCCAATGTCCAGAAGATGAAACACTTCATTCACAA 180
Db 131 GAAGGATTCCTGTGCAATCGACCCCAATGTCCAGAAGATGAAACACTTCATTCACAA 190
QY 181 ATAAAGGACATGTGACCCAGGCACTCTGTATCTGTTGAAGCTACAGAAAGCGATTT 240
Db 191 ATAAAGGACATGTGACCCAGGCACTCTGTATCTGTTGAAGCTACAGAAAGCGATTT 250
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QY 241 TATTTCAAAAATGTTGGCATTGTTGATTCCTGAAACATGGAAGACAAAGGCTGACTATGTG 300  
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 QY 301 AGACAAAACCTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 360  
 Db 311 AGACAAAACCTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 370  
 QY 361 GGTATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGGTGAAGATC 420  
 Db 371 GGTATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGGTGAAGATC 430  
 QY 421 CACCTCACTCCTGATTTTCAATCCAGGAAAAATGTTAGTGAATATGGACCACAAGGTAGG 480  
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 QY 1021 TTCTGCTGACAGACAGTTGAGTGGGTTCTGGGTTGGGATGGTGACATTTGACAGTGTCT 1080  
 Db 1031 TTCTGCTGACAGACAGTTGAGTGGGTTCTGGGTTGGGATGGTGACATTTGACAGTGTCT 1090  
 QY 1081 GCCCATGTACAAAGTGAATCTATACAGATAAACAGTGGCAGTGACAGGGAACACATCGCC 1140  
 Db 1091 GCCCATGTACAAAGTGAATCTATACAGATAAACAGTGGCAGTGACAGGGAACACATCGCC 1150  
 QY 1141 AAAAGATTACCTGACAGCTTCAGAGGAGCTCCATCTCAGCGGCTTCGATCGGCA 1200  
 Db 1151 AAAAGATTACCTGACAGCTTCAGAGGAGCTCCATCTCAGCGGCTTCGATCGGCA 1210  
 QY 1201 TTACTGTGATTTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTCTGTACGGAT 1260  
 Db 1211 TTACTGTGATTTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTCTGTACGGAT 1270  
 QY 1261 GGGGAAGACAACTATAGTGGGCTTTAAGAGGTCAAACAAAGTGGTCCGATCATC 1320  
 Db 1271 GGGGAAGACAACTATAGTGGGCTTTAAGAGGTCAAACAAAGTGGTCCGATCATC 1330  
 QY 1321 CACAGTGCCTTTGGGGCCCTTGACGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1380

Db 1331 CACAGTGCCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1390  
 QY 1381 GGAGGTTTACAGACATATGCTTCAAGTTCAGAACTATGGCCTCATTTGATGCTTTT 1440  
 Db 1391 GGAGGTTTACAGACATATGCTTCAAGTTCAGAACTATGGCCTCATTTGATGCTTTT 1450  
 QY 1441 GGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCTCAATCCAGCTTGAGAGTAAG 1500  
 Db 1451 GGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1510  
 QY 1501 GGATTAACCTTCCAGAACAGCCAGTGGATGAATGSCACAGTATCGTGGACAGACCCGTG 1560  
 Db 1511 GGATTAACCTTCCAGAACAGCCAGTGGATGAATGSCACAGTATCGTGGACAGACCCGTG 1570  
 QY 1561 GGAAGAGACACTTCTTCTTATACCTTGGACAGCGAGCTTCCCAAAATCTTCTCTGG 1620  
 Db 1571 GGAAGAGACACTTCTTCTTATACCTTGGACAGCGAGCTTCCCAAAATCTTCTCTGG 1630  
 QY 1621 GATCCAGTGGACAGAGCAAGTGGCTTGTGTAGTGGACAAAACACAAAATGGCCTAC 1680  
 Db 1631 GATCCAGTGGACAGAGCAAGTGGCTTGTGTAGTGGACAAAACACAAAATGGCCTAC 1690  
 QY 1681 CTCCAAATCCAGGCAATGCTTAAGTTGSCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
 Db 1691 CTCCAAATCCAGGCAATGCTTAAGTTGSCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1750  
 QY 1741 CAAACCTTCACCTGACTGTACGCTCCGCTGCTTCCAAATGCTTACCTGCTTCCAAATACA 1800  
 Db 1751 CAAACCTTCACCTGACTGTACGCTCCGCTGCTTCCAAATGCTTACCTGCTTCCAAATACA 1810  
 QY 1801 GTGACTTCCAAAACGAAAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCA 1860  
 Db 1811 GTGACTTCCAAAACGAAAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCA 1870  
 QY 1861 AATATTCGCCAAGGAGCTTCCCAATCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA 1920  
 Db 1871 AATATTCGCCAAGGAGCTTCCCAATCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA 1930  
 QY 1921 GTCAATGGAAAAACAGTTACTTTGGAATCTGATAATGGAGCAGGTGCTGATGCTACT 1980  
 Db 1931 GTCAATGGAAAAACAGTTACTTTGGAATCTGATAATGGAGCAGGTGCTGATGCTACT 1990  
 QY 1981 AAGGATGACGGTGTCTACTCAAGTATTTCAAACTTATGACAGAAATGGTAGATACAGT 2040  
 Db 1991 AAGGATGACGGTGTCTACTCAAGTATTTCAAACTTATGACAGAAATGGTAGATACAGT 2050  
 QY 2041 GTAAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCCAGAGGAGTATACCCAGCAG 2100  
 Db 2051 GTAAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCCAGAGGAGTATACCCAGCAG 2110  
 QY 2101 AGTGGAGCCTGTATACACTGCTGGATTTGAGAAATGATGAATGAAATGGAATCCACCA 2160  
 Db 2111 AGTGGAGCCTGTATACACTGCTGGATTTGAGAAATGATGAATGAAATGGAATCCACCA 2170  
 QY 2161 AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2220  
 Db 2171 AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2230  
 QY 2221 TCGGGAGGCTCATTTTGTGGCTTCTGATGCTCCAAATGCTCCATACCTGATCTTCCCA 2280  
 Db 2231 TCGGGAGGCTCATTTTGTGGCTTCTGATGCTCCAAATGCTCCATACCTGATCTTCCCA 2290  
 QY 2281 CTTGCCAAAATCACCGACTGAAAGCGGAAATTCAGGGGCGAGTCTCATTAATCTGACT 2340  
 Db 2291 CTTGCCAAAATCACCGACTGAAAGCGGAAATTCAGGGGCGAGTCTCATTAATCTGACT 2350  
 QY 2341 TGGACAGCTCTCTGGGGATGATTTATGACCATGAGTATATCATTTGGAATA 2400  
 Db 2351 TGGACAGCTCTCTGGGGATGATTTATGACCATGAGTATATCATTTGGAATA 2410  
 QY 2401 AGTACAAATTTCTTGTGATCTCAGAGCAAGTTCATTAATCTCTTCAAGTGAATACTACT 2460



Db 2411 AGTCAAGTATCTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTCAATACTACT 2470  
 QY 2461 GCTCTCATCCCAAGAGCACTCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT 2520  
 Db 2471 GCTCTCATCCCAAGAGCACTCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT 2530  
 QY 2521 ACTTTTGAATGGCAGAGTCTTTTCAATGCTATTCAGGCTGTGTAAGGTGATCTG 2580  
 Db 2531 ACTTTTGAATGGCAGAGTCTTTTCAATGCTATTCAGGCTGTGTAAGGTGATCTG 2590  
 QY 2581 AAATCAGAAATATCAACATTGCAGAGTATCTTTGTTTATCTCCAGACTCCGCA 2640  
 Db 2591 AAATCAGAAATATCAACATTGCAGAGTATCTTTGTTTATCTCCAGACTCCGCA 2650  
 QY 2641 GAGACACTAGTCTGATGAACCTCTGCTCTTCTCTATATTCATATCAACAGCACC 2700  
 Db 2651 GAGACACTAGTCTGATGAACCTCTGCTCTTCTCTATATTCATATCAACAGCACC 2710  
 QY 2701 ATTCTGGCATTACATTTTAAATAATATGGAAGTGGATAGGAGAACTGCAGCTGCA 2760  
 Db 2711 ATTCTGGCATTACATTTTAAATAATATGGAAGTGGATAGGAGAACTGCAGCTGCA 2770  
 QY 2761 ATAGCCTAGGCTGAATTTTGTGATGAATAATAATAATCAATCATCTT 2812  
 Db 2771 ATAGCCTAGGCTGAATTTTGTGATGAATAATAATAATCAATCATCTT 2822

## RESULT 6

US-10-055-412B-27

; Sequence 27, Application US/10055412B

; Publication No. US20030059861A1

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0058

; CURRENT APPLICATION NUMBER: US/10/055,412B

; CURRENT FILING DATE: 2001-10-29

; PRIOR APPLICATION NUMBER: US/09/193,562

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-055-412B-27

Query Match

Best Local Similarity 99.8%; Score 2807.2; DB 14; Length 3007;

Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTCTGTCTCATCTTGATT 60

Db 23 GGAATCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTCTGTCTCATCTTGATT 82

QY 61 CTTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTTACGCTGAAACAAATGGCTAT 120

Db 83 CTTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTTACGCTGAAACAAATGGCTAT 142

QY 121 GAAGGCAATGTGTTGCAATCGACCCCAATGGCCAGAGATGAAACACTCATTCACAA 180

Db 143 GAAGGCAATGTGTTGCAATCGACCCCAATGGCCAGAGATGAAACACTCATTCACAA 202

QY 181 ATAAGGACATGTGACCCAGGATCTCTGATCTGTTTGAAGCTACAGGAAAGCGATTT 240

Db 203 ATAAGGACATGTGACCCAGGATCTCTGATCTGTTTGAAGCTACAGGAAAGCGATTT 262

QY 241 TAITTCAAAATGTGCAATTTTCATTTCTGAAACATGGAGACAAAGGCTGACTATGTG 300

Db 263 TAITTCAAAATGTGCAATTTTCATTTCTGAAACATGGAGACAAAGGCTGACTATGTG 322

QY 301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCA 360  
 Db 323 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCA 382  
 QY 361 GGTATGATGAACCTTACACTGACGAGATGGGCACTGTGTGAGAGAAAGGTGAAAGATC 420  
 Db 383 GGTATGATGAACCTTACACTGACGAGATGGGCACTGTGTGAGAGAAAGGTGAAAGATC 442  
 QY 421 CACCTCACTCTGATTTTCAATGACGAGAAAGTTAGCTGAATATGACCAACAGGTAGG 480  
 Db 443 CACCTCACTCTGATTTTCAATGACGAGAAAGTTAGCTGAATATGACCAACAGGTAGG 502  
 QY 481 GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACAGAGTCAATAATGAT 540  
 Db 503 GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACAGAGTCAATAATGAT 562  
 QY 541 GAGAAATTTCTATCTTCCATGAGAGTCAAGAGTCAAGAGTCAAGAGTCAAGAGTCA 600  
 Db 563 GAGAAATTTCTATCTTCCATGAGAGTCAAGAGTCAAGAGTCAAGAGTCAAGAGTCA 622  
 QY 601 GGTACAAATGATGTAAGAGTCTCAGGAGGAGGAGTGTGAGTTTCTTCCAAATCCGCGAGC 660  
 Db 623 GGTACAAATGATGTAAGAGTCTCAGGAGGAGGAGTGTGAGTTTCTTCCAAATCCGCGAGC 682  
 QY 661 AATAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTCTTCCAAATCCGCGAGC 720  
 Db 683 AATAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTCTTCCAAATCCGCGAGC 742  
 QY 721 GAGAAGCTTCTATATGTTTGCACAAATGTTGATCTTATAGTGAATTTCTGTACAGAA 780  
 Db 743 GAGAAGCTTCTATATGTTTGCACAAATGTTGATCTTATAGTGAATTTCTGTACAGAA 802  
 QY 781 CAAAACCAACAAAGAAAGCTCCAAACAGCAAAATCAAAATGCAATCTCGAAGCACA 840  
 Db 803 CAAAACCAACAAAGAAAGCTCCAAACAGCAAAATCAAAATGCAATCTCGAAGCACA 862  
 QY 841 TGGGAAGTATCCGTTGATCTGAGGACTTTAAGAAAAACCACTCTATGACACACAGCCA 900  
 Db 863 TGGGAAGTATCCGTTGATCTGAGGACTTTAAGAAAAACCACTCTATGACACACAGCCA 922  
 QY 901 CCAATCCCACTTCTCATTTGTCAGATTTGACAAAGAAATTTGTTTGTAGTCTTGAC 960  
 Db 923 CCAATCCCACTTCTCATTTGTCAGATTTGACAAAGAAATTTGTTTGTAGTCTTGAC 982  
 QY 961 AAATCTGGAAGCATGGCGACTGTAAACCGCTCAATCGACTGAATCAAGAGCGGCGATT 1020  
 Db 983 AAATCTGGAAGCATGGCGACTGTAAACCGCTCAATCGACTGAATCAAGAGCGGCGATT 1042  
 QY 1021 TTCTGTGTCAGACAGTTGAGTGGGGTCTGGGTGGGATGGTGACATTTGACAGTGTCT 1080  
 Db 1043 TTCTGTGTCAGACAGTTGAGTGGGGTCTGGGTGGGATGGTGACATTTGACAGTGTCT 1102  
 QY 1081 GCCCATGTACAAAGTGAATCATACAGATAAAGTGGCAGTGAACAGGACACATCTGCC 1140  
 Db 1103 GCCCATGTACAAAGTGAATCATACAGATAAAGTGGCAGTGAACAGGACACATCTGCC 1162  
 QY 1141 AAAAGATTTACCTGACAGAGTTTCAAGAGGAGGAGTCCATCTGACGGGGCTTCGATCGCA 1200  
 Db 1163 AAAAGATTTACCTGACAGAGTTTCAAGAGGAGGAGTCCATCTGACGGGGCTTCGATCGCA 1222  
 QY 1201 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGACGGAT 1260  
 Db 1223 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGACGGAT 1282  
 QY 1261 GGGGAGACAACTATTAAGTGGGTCTTTAAAGAGTCAAAAGTGGTGGCATCATC 1320  
 Db 1283 GGGGAGACAACTATTAAGTGGGTCTTTAAAGAGTCAAAAGTGGTGGCATCATC 1342  
 QY 1321 CACACAGTCTGTTGGGGCTCTGAGAGTCAAGAGTCAAGAGTCTGTCGAAATGACA 1380  
 Db 1343 CACACAGTCTGTTGGGGCTCTGAGAGTCAAGAGTCAAGAGTCTGTCGAAATGACA 1402  
 QY 1381 GGAGGTTTACAGACATATGCTTCAAGTCAAGTTTCAAGAACTGGCTCATTTGATGCTTTT 1440

Db	1403	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACAATGGGCTCATTTGATGCTTTT	1462
Qy	1441	GGGGCCCTTTTCATCAGGAAATGGAGTCTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAG	1500
Db	1463	GGGGCCCTTTTCATCAGGAAATGGAGTCTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAG	1522
Qy	1501	GGATTAAACCTTCAGAACAGCCAGTGGATGAATGGCAAGTGAATCGTGGACAGCCGTG	1560
Db	1523	GGATTAAACCTTCAGAACAGCCAGTGGATGAATGGCAAGTGAATCGTGGACAGCCGTG	1582
Qy	1561	GGAAAGGACACTTTGTTTCTTATCAGCTGGACAGCGAGCTCCCAAAATCCTCTCTGG	1620
Db	1583	GGAAAGGACACTTTGTTTCTTATCAGCTGGACAGCGAGCTCCCAAAATCCTCTCTGG	1642
Qy	1621	GATCCAGTGGACAGAACAGGCTGGCTTTGTAGTGGACAAACCAAAATGGCCCTAC	1680
Db	1643	GATCCAGTGGACAGAACAGGCTGGCTTTGTAGTGGACAAACCAAAATGGCCCTAC	1702
Qy	1681	CTCCAAATCCAGGGCAATGCTAAGTGTGGACCTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
Db	1703	CTCCAAATCCAGGGCAATGCTAAGTGTGGACCTTGGAAATACAGTCTGCAAGCAAGCTCA	1762
Qy	1741	CAAACTTCACCTGACTGTACGCTCCGCTGGTCCCAATGCTACCTGCTCCCAATTACA	1800
Db	1763	CAAACTTCACCTGACTGTACGCTCCGCTGGTCCCAATGCTACCTGCTCCCAATTACA	1822
Qy	1801	GTGACTTCCAAACAGAACAGGACACAGCAAAATCCCGAGCCCTCTGGTGTATGCA	1860
Db	1823	GTGACTTCCAAACAGAACAGGACACAGCAAAATCCCGAGCCCTCTGGTGTATGCA	1882
Qy	1861	AATATTTCGCAAGGAGCTCCCAATTTCTCAGGGCAGTGTACAGCCCTGATTGAATCA	1920
Db	1883	AATATTTCGCAAGGAGCTCCCAATTTCTCAGGGCAGTGTACAGCCCTGATTGAATCA	1942
Qy	1921	GTGAATGGAAAAACAGTACTTGGAACTACTGTAATGGAGCAGTGTGCTGATCTACT	1980
Db	1943	GTGAATGGAAAAACAGTACTTGGAACTACTGTAATGGAGCAGTGTGCTGATCTACT	2002
Qy	1981	AAGGATCAGCGTGTACTCAAGTATTTTCAACATTTATGACAGCAATGGTAGATACAGT	2040
Db	2003	AAGGATCAGCGTGTACTCAAGTATTTTCAACATTTATGACAGCAATGGTAGATACAGT	2062
Qy	2041	GTAAGTGGGGCTCTGGAGGAGTTAAACGACAGCAGGAGTGTATACCCACAG	2100
Db	2063	GTAAGTGGGGCTCTGGAGGAGTTAAACGACAGCAGGAGTGTATACCCACAG	2122
Qy	2101	AGTGAGCAGTGTACATACCTGGCTGGATTGAGAAATGAAATACAAATGGAATCCACCA	2160
Db	2123	AGTGAGCAGTGTACATACCTGGCTGGATTGAGAAATGAAATACAAATGGAATCCACCA	2182
Qy	2161	AGACTGAAATTAATAAGGATGATGTTTCAACAGCAAGTGTGTTTCAGCAGAACATCC	2220
Db	2183	AGACTGAAATTAATAAGGATGATGTTTCAACAGCAAGTGTGTTTCAGCAGAACATCC	2242
Qy	2221	TCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATCCTGATCTTCCCA	2280
Db	2243	TCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATCCTGATCTTCCCA	2302
Qy	2281	CCTGGCMAATCAGGACCTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT	2340
Db	2303	CCTGGCMAATCAGGACCTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT	2362
Qy	2341	TGGACAGCTCTGGGGATGATTATGACCATGGAACAGCTCAAGATATATCATTTGGAATA	2400
Db	2363	TGGACAGCTCTGGGGATGATTATGACCATGGAACAGCTCAAGATATATCATTTGGAATA	2422
Qy	2401	AGTAAAGATTTCTTGATCTCAGAGCAAGTTCAATGATCTCTTTCAAGTGAATCTACT	2460
Db	2423	AGTAAAGATTTCTTGATCTCAGAGCAAGTTCAATGATCTCTTTCAAGTGAATCTACT	2482
Qy	2461	GCTCTCATCCAAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT	2520
Db	2483	GCTCTCATCCAAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT	2542
Qy	2521	ACTTTTGAATATGCACAGATCTTTTTCATTCCTATTCAGGCTGTGATAGGTGATCTG	2580
Db	2543	ACTTTTGAATATGCACAGATCTTTTTCATTCCTATTCAGGCTGTGATAGGTGATCTG	2602
Qy	2581	AAATCAGAAATATCCAAATTCGACGATATCTTTTGTATTTCTCCACAGACTCCGCCA	2640
Db	2603	AAATCAGAAATATCCAAATTCGACGATATCTTTTGTATTTCTCCACAGACTCCGCCA	2662
Qy	2641	GAGACACCTAGTCTCTGATGAACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2700
Db	2663	GAGACACCTAGTCTCTGATGAACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2722
Qy	2701	ATTCTCTGGCATTCACATTTTAAATTTTGAAGTGTGAAGTGTGAAGTGTGAAGTGTGA	2760
Db	2723	ATTCTCTGGCATTCACATTTTAAATTTTGAAGTGTGAAGTGTGAAGTGTGAAGTGTGA	2782
Qy	2761	ATAGCTAGGCTGATTTTGTGATGAATTTTGTGATGAATTTTGTGATGAATTTTGTGAT	2812
Db	2783	ATAGCTAGGCTGATTTTGTGATGAATTTTGTGATGAATTTTGTGATGAATTTTGTGAT	2834
RESULT 7			
US-09-922-217-1056			
; Sequence 1056, Application US/09922217			
; Patent No. US20020076414A1			
; GENERAL INFORMATION:			
; APPLICANT: Xu, Jiangchun			
; APPLICANT: Lodes, Michael J.			
; APPLICANT: Secrist, Heather			
; APPLICANT: Benson, Darin R.			
; APPLICANT: Meagher, Madeleine Joy			
; APPLICANT: Stolk, John A.			
; APPLICANT: Wang, Tongtong			
; APPLICANT: Jiang, Yudi			
; APPLICANT: Smith, Carole Lynn			
; APPLICANT: King, Gordon E.			
; APPLICANT: Wang, Aijun			
; APPLICANT: Clapper, Jonathan D.			
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS			
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE			
; FILE REFERENCE: 210121.471C13			
; CURRENT APPLICATION NUMBER: US/09/922,217			
; CURRENT FILING DATE: 2001-08-03			
; NUMBER OF SEQ ID NOS: 1124			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 1056			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-922-217-1056			
Query Match 99.8%; Score 2807.2; DB 9; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
Qy	1	GAAATCACAGGAGATGTACAGCAATGGGCGCATTTAAGAGTCTGTGTTCACTTGATT	60
Db	328	GGAATCACAGGAGATGTACAGCAATGGGCGCATTTAAGAGTCTGTGTTCACTTGATT	387
Qy	61	CTTCACCTTCTAGAGGGCGCTCAGTAATTCATCTAGCTGAGCAACAATGGCTAT	120
Db	388	CTTCACCTTCTAGAGGGCGCTCAGTAATTCATCTAGCTGAGCAACAATGGCTAT	447
Qy	121	GAAGCATTGCTGTGCAATCGACCCCAATGCGCAGAGATGAAACACTCATTCAACAA	180
Db	448	GAAGCATTGCTGTGCAATCGACCCCAATGCGCAGAGATGAAACACTCATTCAACAA	507
Qy	181	ATAAGGACATGCTGACCCAGCATCTCTGTATCTCTGTTTGAAGCTACAGGAAGGATT	240
Db	508	ATAAGGACATGCTGACCCAGCATCTCTGTATCTCTGTTTGAAGCTACAGGAAGGATT	567

QY	241	TATTTCAA	AAATGTTGCC	ATTTTGATTCCTG	AAACAATGGA	ACAAAGGCTG	CAC	TATGTG	300
DB	568	TATTTCAA	AAATGTTGCC	ATTTTGATTCCTG	AAACAATGGA	ACAAAGGCTG	CAC	TATGTG	627
QY	301	AGACCAAA	ACTTGAGAC	CTTACAAAATG	CTGATGTTCTG	GTGCTGAG	TTCTACTCT	CCCA	360
DB	628	AGACCAAA	ACTTGAGAC	CTTACAAAATG	CTGATGTTCTG	GTGCTGAG	TTCTACTCT	CCCA	687
QY	361	GGTAATG	ATGAACCC	CTTACACTG	AGCAGATGG	CGCACTGTGG	GAGAGAAAGG	TGAAGGATC	420
DB	688	GGTAATG	ATGAACCC	CTTACACTG	AGCAGATGG	CGCACTGTGG	GAGAGAAAGG	TGAAGGATC	747
QY	421	CACCTCA	CTCTGATTT	CAATTCAG	GAAAAAGTTAG	CTGTAATATG	GCACCA	CAAGGTAGG	480
DB	748	CACCTCA	CTCTGATTT	CAATTCAG	GAAAAAGTTAG	CTGTAATATG	GCACCA	CAAGGTAGG	807
QY	481	GCATTTG	CCATGAGT	TGGGCTCATCT	ACATGGGAG	TATTTGAC	GAGTACA	ATAATGAT	540
DB	808	GCATTTG	CCATGAGT	TGGGCTCATCT	ACATGGGAG	TATTTGAC	GAGTACA	ATAATGAT	867
QY	541	GAGAAAT	TCTACTT	ATCCAA	TGGAAGATAC	AAGCAGTA	AGATGTTT	CAGCAGGATTTACT	600
DB	868	GAGAAAT	TCTACTT	ATCCAA	TGGAAGATAC	AAGCAGTA	AGATGTTT	CAGCAGGATTTACT	927
QY	601	GGTACAA	ATGTAGT	TAAGAAGT	GTGAGGAG	CGACTGTTAC	CCAAAGAT	TGCACATTC	660
DB	928	GGTACAA	ATGTAGT	TAAGAAGT	GTGAGGAG	CGACTGTTAC	CCAAAGAT	TGCACATTC	987
QY	661	AATAAGT	TAACAGG	ACTCTATG	AAAAAGGAT	GTGAGTTGTT	CTCCAA	TCCGCGAGCG	720
DB	988	AATAAGT	TAACAGG	ACTCTATG	AAAAAGGAT	GTGAGTTGTT	CTCCAA	TCCGCGAGCG	1047
QY	721	GAGAAGG	CTTCTATA	ATGTTTG	CAACAATCTG	ATTCATAG	TTGAATTC	TGTFACAGAA	780
DB	1048	GAGAAGG	CTTCTATA	ATGTTTG	CAACAATCTG	ATTCATAG	TTGAATTC	TGTFACAGAA	1107
QY	781	CAAAACCA	CAACAAG	AGCTCCAAA	CAAGCAAA	ATCAAA	AAATGCAATCT	CCGAAGCACA	840
DB	1108	CAAAACCA	CAACAAG	AGCTCCAAA	CAAGCAAA	ATCAAA	AAATGCAATCT	CCGAAGCACA	1167
QY	841	TGGGAAG	TGATCCG	TGATCTG	GAGACTTTA	AGAAAA	CCACTCT	TATGACAA	900
DB	1168	TGGGAAG	TGATCCG	TGATCTG	GAGACTTTA	AGAAAA	CCACTCT	TATGACAA	1227
QY	901	CCAAAT	CCCAC	CTTCTCAT	TGCTGC	AGATGG	ACAAAGAA	TTGTTGTTT	1287
DB	1228	CCAAAT	CCCAC	CTTCTCAT	TGCTGC	AGATGG	ACAAAGAA	TTGTTGTTT	1287
QY	961	AAATCTG	GAGCATGG	GCATGTTA	ACCGCTCA	ATCGACTG	AAATCAAG	CAGGCCAGCTT	1020
DB	1288	AAATCTG	GAGCATGG	GCATGTTA	ACCGCTCA	ATCGACTG	AAATCAAG	CAGGCCAGCTT	1347
QY	1021	TTCTGCT	GCAGACAG	TTGAGCTGG	GGTCCCTGG	GTGGATGT	GACATTTG	CAGTGT	1080
DB	1348	TTCTGCT	GCAGACAG	TTGAGCTGG	GGTCCCTGG	GTGGATGT	GACATTTG	CAGTGT	1407
QY	1081	GCCCATG	TACAAAG	TGAACCTC	ATACAGAT	AAAACAGT	GGCAGT	CACAGGGAC	1140
DB	1408	GCCCATG	TACAAAG	TGAACCTC	ATACAGAT	AAAACAGT	GGCAGT	CACAGGGAC	1467
QY	1141	AAAAGAT	TACTCG	CAGCAGCTT	CAGAGGG	ACCTCCAT	CTGCAG	CGGGCTTG	1200
DB	1468	AAAAGAT	TACTCG	CAGCAGCTT	CAGAGGG	ACCTCCAT	CTGCAG	CGGGCTTG	1527
QY	1201	TTTACTG	TGATTAG	GAGAAAT	TCCAACTG	ATGGATCTG	AAATTTG	CTGTCGCGAT	1260
DB	1528	TTTACTG	TGATTAG	GAGAAAT	TCCAACTG	ATGGATCTG	AAATTTG	CTGTCGCGAT	1587
QY	1261	GGGGAAG	ACAAC	ACTATA	AGTGGGT	GCTTTAA	CCAGGT	CAAA	1320
DB	1588	GGGGAAG	ACAAC	ACTATA	AGTGGGT	GCTTTAA	CCAGGT	CAAA	1647
QY	1321	CACACAG	TGCTTGG	GCGCCTCT	GCAGCT	CAAGAA	CTAGAG	GAGCTG	1380

D	b	1648	CACACAGTCGGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1707
Q	y	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAATGGCTCATTTGATGCTTTT	1440
D	b	1708	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAATGGCTCATTTGATGCTTTT	1767
Q	y	1441	GGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1500
D	b	1768	GGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1827
Q	y	1501	GGATTAACTCCAGAACGCGAGTGGATGAATGGCGACAGTGCATCGTGGACAGCACCGTG	1560
D	b	1828	GGATTAACTCCAGAACGCGAGTGGATGAATGGCGACAGTGCATCGTGGACAGCACCGTG	1887
Q	y	1561	GGAAAGGACACTTTGTTTCTTATCCTCGACAAACGAGCGCTCCCCAAATCCTTCTCTGG	1620
D	b	1888	GGAAAGGACACTTTGTTTCTTATCCTCGACAAACGAGCGCTCCCCAAATCCTTCTCTGG	1947
Q	y	1621	GATCCAGTGGACAGAAAGAGTGGCTTTGTGTAGTGACAAAAACACAAAATGGCCTAC	1680
D	b	1948	GATCCAGTGGACAGAAAGAGTGGCTTTGTGTAGTGACAAAAACACAAAATGGCCTAC	2007
Q	y	1681	CTCCAAATCCAGCGATTGCTAAGTTGGCACTTGGAATACAGTCTGCGAAGCAAGCTCA	1740
D	b	2008	CTCCAAATCCAGCGATTGCTAAGTTGGCACTTGGAATACAGTCTGCGAAGCAAGCTCA	2067
Q	y	1741	CAAACTTGACCTGTACTGCTCCCGTGGTCCAAATGCTACCTGCTCCAAATTACA	1800
D	b	2068	CAAACTTGACCTGTACTGCTCCCGTGGTCCAAATGCTACCTGCTCCAAATTACA	2127
Q	y	1801	GTGACTTCCAAAACGAAACAGACACCGCAAAATCCCGACGCGCTCTGGTAGTTATGCA	1860
D	b	2128	GTGACTTCCAAAACGAAACAGACACCGCAAAATCCCGACGCGCTCTGGTAGTTATGCA	2187
Q	y	1861	AATATTCGCAAGGAGCTTCCCAATTCACGCGCCAGTGTACAGCCCTGATTGAATCA	1920
D	b	2188	AATATTCGCAAGGAGCTTCCCAATTCACGCGCCAGTGTACAGCCCTGATTGAATCA	2247
Q	y	1921	GTGAATGGAAACAGTTACCTTTGNACTACTTGATTAATGGAGCAGGTGCTGATGCTACT	1980
D	b	2248	GTGAATGGAAACAGTTACCTTTGNACTACTTGATTAATGGAGCAGGTGCTGATGCTACT	2307
Q	y	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAAATGGTAGATACAGT	2040
D	b	2308	AAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAAATGGTAGATACAGT	2367
Q	y	2041	GTAAAGTTCGGGCTCTCGGAGAGTTAACCGAGCCAGACGGAGAGTGATACCCAGCAG	2100
D	b	2368	GTAAAGTTCGGGCTCTCGGAGAGTTAACCGAGCCAGACGGAGAGTGATACCCAGCAG	2427
Q	y	2101	AGTGAGACACTGTACATACCTGGCTGGATTGGAATGATGAATACATGGGAATCCACA	2160
D	b	2428	AGTGAGACACTGTACATACCTGGCTGGATTGGAATGATGAATACATGGGAATCCACA	2487
Q	y	2161	AGACTGAAATTAATAAGGATGATGTTCAACAACAGCAAGTGTGTTTCAGCAGAAATCC	2220
D	b	2488	AGACTGAAATTAATAAGGATGATGTTCAACAACAGCAAGTGTGTTTCAGCAGAAATCC	2547
Q	y	2221	TCGGGAGGCTCATTTGTGGCTTCGATGTCCAAATGCTCCCATACCTGATCTCTCCCA	2280
D	b	2548	TCGGGAGGCTCATTTGTGGCTTCGATGTCCAAATGCTCCCATACCTGATCTCTCCCA	2607
Q	y	2281	CCTGGCCAAATCACCGACTCAAGCGGAAATTCACGGGGCAGCTCATTAATCTGACT	2340
D	b	2608	CCTGGCCAAATCACCGACTCAAGCGGAAATTCACGGGGCAGCTCATTAATCTGACT	2667
Q	y	2341	TGGACAGCTCTCGGGATGATTATGACCATTGGAAACAGCTCAAAAGTATATCATTTGAAATA	2400
D	b	2668	TGGACAGCTCTCGGGATGATTATGACCATTGGAAACAGCTCAAAAGTATATCATTTGAAATA	2727
Q	y	2401	AGTACAGTATCTTGATCTCAGACACAGTTTCAATGAATCTCTTCAAGTGAATCTACT	2460

Db	2728	AGTAAAGTATTTCTTGATCTCAGAGACAGTTCAATGAATCTCTCAAGTGAATACTACT	2787	Qy	301	AGACAAAACCTTGAGACCTACAAAATCTGATGTTCTTGTTGCTGAGTCTACTCTCTCCA	360
Qy	2461	GCTCTCTATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAAACATT	2520	Db	628	AGACAAAACCTTGAGACCTACAAAATCTGATGTTCTTGTTGCTGAGTCTACTCTCTCCA	687
Db	2788	GCTCTCTATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAAACATT	2847	Qy	361	GGTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGAGAGAGAGGGTGAAGGATC	420
Qy	2521	ACTTTGAAATGGCAGAGATCTTTTCTGATTCAGGCTGTTGATGAAGTGCATCTG	2580	Db	688	GGTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGAGAGAGAGGGTGAAGGATC	747
Db	2848	ACTTTGAAATGGCAGAGATCTTTTCTGATTCAGGCTGTTGATGAAGTGCATCTG	2907	Qy	421	CACCTCACTCTGATTTTCTTATGAGGAAAAGTTAGCTGAATATGGAACCAAGGTAGG	480
Qy	2581	AAATCAGAAATATCAACATTCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA	2640	Db	748	CACCTCACTCTGATTTTCTTATGAGGAAAAGTTAGCTGAATATGGAACCAAGGTAGG	807
Db	2908	AAATCAGAAATATCAACATTCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA	2967	Qy	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATATGAT	540
Qy	2641	GAGACACCTAGTCTGATGAACGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2700	Db	808	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATATGAT	867
Db	2968	GAGACACCTAGTCTGATGAACGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	3027	Qy	541	GAGAAATTTCTACTTATCCATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTACT	600
Qy	2701	ATTCCTGGGATTCACATTTTAAATTTATGGAAGTGGATAGGAGAACTGCAGCTGTCA	2760	Db	868	GAGAAATTTCTACTTATCCATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTACT	927
Db	3028	ATTCCTGGGATTCACATTTTAAATTTATGGAAGTGGATAGGAGAACTGCAGCTGTCA	3087	Qy	601	GGTACAAATGTAGTAAAGAGTGTCCAGGGAGCAGCTGTACACCAAAAGATGCACTTC	660
Qy	2761	ATAGCTAGGCTGAATTTTCTCAGATAAATAAATAAATAAATCAATCATCTT	2812	Db	928	GGTACAAATGTAGTAAAGAGTGTCCAGGGAGCAGCTGTACACCAAAAGATGCACTTC	987
Db	3088	ATAGCTAGGCTGAATTTTCTCAGATAAATAAATAAATAAATCAATCATCTT	3139	Qy	661	AATAAGTAACAGGACTCTATGAAAAGAGTGTGATTTGTTTCTCCAAATCCGCCAGAG	720
RESULT 8							
US-09-833-263-1056							
; Sequence 1056, Application US/09833263							
; Patent No. US20020110547A1							
; GENERAL INFORMATION:							
; APPLICANT: Wang, Aijun							
; APPLICANT: Clapper, Jonathan D.							
; APPLICANT: Stolk, John A.							
; APPLICANT: Meagher, Madeleine J.							
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND							
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE							
; FILE REFERENCE: 210121.471C12							
; CURRENT APPLICATION NUMBER: US/09/833,263							
; CURRENT FILING DATE: 2001-04-10							
; NUMBER OF SEQ ID NOS: 1093							
; SOFTWARE: FastSeq for Windows Version 3.0							
; SEQ ID NO 1056							
; LENGTH: 3311							
; TYPE: DNA							
; ORGANISM: Homo sapiens							
US-09-833-263-1056							
Query Match 99.8%; Score 2807.2; DB 9; Length 3311;							
Best Local Similarity 99.9%; Pred. No. 0;							
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;							
Qy	1	GAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTCTGTGTTTCATCTTGATT	60	Db	1168	TGGGAAGTGTATCCGTTGATTTCTGAGGACTTTAAAGAAAACCACTCTATGACACACAGCCA	1227
Db	328	GGAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTCTGTGTTTCATCTTGATT	387	Qy	901	CCAAATCCCACCTTCTCATTTGTCGAGATTTGACAAAGAAATTTGTTGTTTGTCTTGAC	960
Qy	61	CTTCACCTTCTAGAAGGGCCCTGAGTAAATTCATCTCATTCAGCTGGAACAACAATGGCTAT	120	Db	1228	CCAAATCCCACCTTCTCATTTGTCGAGATTTGACAAAGAAATTTGTTGTTTGTCTTGAC	1287
Db	388	CTTCACCTTCTAGAAGGGCCCTGAGTAAATTCATCTCATTCAGCTGGAACAACAATGGCTAT	447	Qy	961	AAATCTGGAAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020
Qy	121	GAAGGATTTGCTGTTGCAATCGACCCCAATGTGCGAGAGATGAACACTCATTCAACAA	180	Db	1288	AAATCTGGAAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT	1347
Db	448	GAAGGATTTGCTGTTGCAATCGACCCCAATGTGCGAGAGATGAACACTCATTCAACAA	507	Qy	1021	TTCTCTGCTGACAGACAGTTCAGCTGGGGTCTCTGGGTTGGGATGGTGAATTTGACAGTGCT	1080
Qy	181	ATAAGGACATGTGACCCAGGCAATCTCTGATCTGTTTGAAGCTACAGGAAAGCGATTT	240	Db	1348	TTCTCTGCTGACAGACAGTTCAGCTGGGGTCTCTGGGTTGGGATGGTGAATTTGACAGTGCT	1407
Db	508	ATAAGGACATGTGACCCAGGCAATCTCTGATCTGTTTGAAGCTACAGGAAAGCGATTT	567	Qy	1081	GCCCATGTACAAAGTGAATCTCATACAGATAAAGTGGGAGTTCAGAGGACACACTCGCC	1140
Qy	241	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	300	Db	1408	GCCCATGTACAAAGTGAATCTCATACAGATAAAGTGGGAGTTCAGAGGACACACTCGCC	1467
Db	568	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	627	Qy	1141	AAAAGATTACTCTCAGCAGCTTCAGAGGAGACCTCCATCTGACAGCGGGCTTCGATCGGCA	1200

[illegible]

Db	2788	GCTCTCATTCCAAAGGAACCAACTCTCAGGAAGTCTTTTGTGTTAAACAGAAAAACATT	2847
Qy	2521	ACTTTTGAATAATGGCACAGATCTTTTTCATTTGCTATTTCAGGCTGTTGATTAAGTTCGATCTG	2580
Db	2848	ACTTTTGAATAATGGCACAGATCTTTTTCATTTGCTATTTCAGGCTGTTGATTAAGTTCGATCTG	2907
Qy	2581	AAATCAGAAATATCCAACTTGCACGAGTATCTTTTGTGTTATTCCTCCACAGACTCCGCCA	2640
Db	2908	AAATCAGAAATATCCAACTTGCACGAGTATCTTTTGTGTTATTCCTCCACAGACTCCGCCA	2967
Qy	2641	GAGACACTAGTCTCTGATGAAACGTCCTCCTTGTGCTCTTAATTTTATTCATATCAACAGCACC	2700
Db	2968	GAGACACTAGTCTCTGATGAAACGTCCTCCTTGTGCTCTTAATTTTATTCATATCAACAGCACC	3027
Qy	2701	ATTCTCTGGCATTCACATTTTAAATAATTATGGAAGTGGATAGGAGAACTGCAGCTGTCA	2760
Db	3028	ATTCTCTGGCATTCACATTTTAAATAATTATGGAAGTGGATAGGAGAACTGCAGCTGTCA	3087
Qy	2761	ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATAAATCATTCATCCTT	2812
Db	3088	ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATAAATCATTCATCCTT	3139

RESULT 9

US-10-025-380-1056

; Sequence 1056, Application US/10025380

; Publication No. US20020182191A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Jiang, Yugu

; APPLICANT: Smith, Carole L.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedwick Thomas S.

; APPLICANT: Carter, Darrick

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C14

; CURRENT APPLICATION NUMBER: US/10/025,380

; CURRENT FILING DATE: 2001-12-19

; NUMBER OF SEQ ID NOS: 1129

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1056

; LENGTH: 3311

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-025-380-1056

Query Match	99.8%	Score 2807.2;	DB 13;	Length 3311;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 2809;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;
Qy 1	GAATCACAGGAGATGATACAGCAATGGGGCCATTTAAGAGATCTGTGTTCATCTTCATT	60		
Db 328	GGATCACAGGAGATGATACAGCAATGGGGCCATTTAAGAGATCTGTGTTCATCTTCATT	387		
Qy 61	CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTCAGCTGACACAAATGGCTAT	120		
Db 388	CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTCAGCTGACACAAATGGCTAT	447		
Qy 121	GAAGGCATTGTCTGTGCAATCGACCCCAATGTCCAGAGATGAAACACATCTATCAACAA	180		
Db 448	GAAGGCATTGTCTGTGCAATCGACCCCAATGTCCAGAGATGAAACACATCTATCAACAA	507		

QY	181	ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATT	240	Db	1588	GGGAGACAACTATAAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGGTGCCATCATC	1647
Db	508	ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATT	567	QY	1321	CACACAGTCGCTTTGGGCCCCCTCTGCAGCTCAAGAACTAGAGGAGCTCTCCAAAATGACA	1380
QY	241	TATTTCAAAAATGTTGCCATTTTGAATCTCTGAACATGGAAGAAAGGCTGACTATGTG	300	Db	1648	CACACAGTCGCTTTGGGCCCCCTCTGCAGCTCAAGAACTAGAGGAGCTCTCCAAAATGACA	1707
Db	568	TATTTCAAAAATGTTGCCATTTTGAATCTCTGAACATGGAAGAAAGGCTGACTATGTG	627	QY	1381	GGAGTTTACAGACATATGCTTTTCAGATCAAGTTCAGAAACAATGGCCTCATTTGATGCTTTT	1440
QY	301	AGACCAAACTTTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCCA	360	Db	1708	GGAGTTTACAGACATATGCTTTTCAGATCAAGTTCAGAAACAATGGCCTCATTTGATGCTTTT	1767
Db	628	AGACCAAACTTTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCCA	687	QY	1441	GGGGCCCCCTTTCATCAGGAAATGGAGCTCTCTTCAGCGCTCATCCAGCTTCAGAGTAAG	1500
QY	361	GCTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAGGATC	420	Db	1768	GGGGCCCCCTTTCATCAGGAAATGGAGCTCTCTTCAGCGCTCATCCAGCTTCAGAGTAAG	1827
Db	688	GCTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAGGATC	747	QY	1501	GGATTAACCTCCACAGACAGCCAGTGGATGAATGACAGTATCGTGGACAGACCCGTG	1560
QY	421	CACCTCACTCCTGATTTTCAATTCAGGAAAGGTTAGCTGAATATGGACCAAGGTAGG	480	Db	1828	GGATTAACCTCCACAGACAGCCAGTGGATGAATGACAGTATCGTGGACAGACCCGTG	1887
Db	748	CACCTCACTCCTGATTTTCAATTCAGGAAAGGTTAGCTGAATATGGACCAAGGTAGG	807	QY	1561	GGAAAGGACACTTTTCTTATCACTGGACACGCGAGCTCCCAAAATCCTTCTCTGG	1620
QY	481	GCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	540	Db	1888	GGAAAGGACACTTTTCTTATCACTGGACACGCGAGCTCCCAAAATCCTTCTCTGG	1947
Db	808	GCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	867	QY	1621	GATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC	1680
QY	541	GAGAAATTTCTATTCATGGAAGAAATACAGCAGTAAGATGTTTCAGCAGGTATTACT	600	Db	1948	GATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC	2007
Db	868	GAGAAATTTCTATTCATGGAAGAAATACAGCAGTAAGATGTTTCAGCAGGTATTACT	927	QY	1681	CTCCAAATCCAGGACATTTCTAAGTGGCACTTGGAAATACAGTTCGAAGCAAGCTCA	1740
QY	601	GGTACAAATGTAAGAGTGTACAGGAGGAGGAGTGTATTCACCAAAAGATGCACATTC	660	Db	2008	CTCCAAATCCAGGACATTTCTAAGTGGCACTTGGAAATACAGTTCGAAGCAAGCTCA	2067
Db	928	GGTACAAATGTAAGAGTGTACAGGAGGAGGAGTGTATTCACCAAAAGATGCACATTC	987	QY	1741	CAAACTTCACCTGACTGTACGTCCTGGTGGCTCAATGCTACCTGCTCCAAATGACA	1800
QY	661	AATAAGTAAACAGACTCTATGAAAAAGGATGTAGTGTGTTCTCCAAATCCCGCCAGAG	720	Db	2068	CAAACTTCACCTGACTGTACGTCCTGGTGGCTCAATGCTACCTGCTCCAAATGACA	2127
Db	988	AATAAGTAAACAGACTCTATGAAAAAGGATGTAGTGTGTTCTCCAAATCCCGCCAGAG	1047	QY	1801	GTGACTTCCAAACAAAGAACAGACACAGCAAAATTCGCCAGCCCTCTGTAGTTATGCA	1860
QY	721	GAGAAGGCTTCTATAATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780	Db	2128	GTGACTTCCAAACAAAGAACAGACACAGCAAAATTCGCCAGCCCTCTGTAGTTATGCA	2187
Db	1048	GAGAAGGCTTCTATAATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1107	QY	1861	ATAATTCGCCAGGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATGTAATCA	1920
QY	781	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAATGCAATCTCCGAGCACA	840	Db	2188	ATAATTCGCCAGGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATGTAATCA	2247
Db	1108	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAATGCAATCTCCGAGCACA	1167	QY	1921	GTCAATGGAAAAACAGTTACTTTGGAATCTACTGGAATATGAGACAGTGTGATGCTACT	1980
QY	841	TGGAGAGTGTCCGTGATTTCTGAGACTTTTAAAGAAAAACCACTCTATGACAAACAGCCA	900	Db	2248	GTCAATGGAAAAACAGTTACTTTGGAATCTACTGGAATATGAGACAGTGTGATGCTACT	2307
Db	1168	TGGAGAGTGTCCGTGATTTCTGAGACTTTTAAAGAAAAACCACTCTATGACAAACAGCCA	1227	QY	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATCAGCAGTGTAGATACAGT	2040
QY	901	CCAAATCCCACTTCTCATTTGCTGAGATTTGGAACAAAGAAATTTGTTAGTCCCTTGAC	960	Db	2308	AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATCAGCAGTGTAGATACAGT	2367
Db	1228	CCAAATCCCACTTCTCATTTGCTGAGATTTGGAACAAAGAAATTTGTTAGTCCCTTGAC	1287	QY	2041	GTAAAGTGGGGCTCTGGGAGGAGTTTAAAGCAGCAGAGGAGTATACCCAGCAG	2100
QY	961	AAATCTGGAAGCATGGGACCTGTAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1020	Db	2368	GTAAAGTGGGGCTCTGGGAGGAGTTTAAAGCAGCAGAGGAGTATACCCAGCAG	2427
Db	1288	AAATCTGGAAGCATGGGACCTGTAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1347	QY	2101	AGTGGAGCATGTACATACCTGCTGGATTCAGAAATGATGAAATACAAATGGAATCCACCA	2160
QY	1021	TTCTGCTGACAGACAGTTGAGTGGGGTCTGGGTTGGGTTGGATGTTGACATTTGACAGTGT	1080	Db	2428	AGTGGAGCATGTACATACCTGCTGGATTCAGAAATGATGAAATACAAATGGAATCCACCA	2487
Db	1348	TTCTGCTGACAGACAGTTGAGTGGGGTCTGGGTTGGGTTGGATGTTGACATTTGACAGTGT	1407	QY	2161	AGACCTGAAATTAATAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC	2220
QY	1081	GCCCATGTACAAAGTGAATCTCATACAGATAAACAGTGGCAGTGCAGGACACACTCGCC	1140	Db	2488	AGACCTGAAATTAATAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC	2547
Db	1408	GCCCATGTACAAAGTGAATCTCATACAGATAAACAGTGGCAGTGCAGGACACACTCGCC	1467	QY	2221	TCGGAGGCTCATTTGGTGTCTGATGTTCCAAATGCTCCATACCTGATCTCTCCCA	2280
QY	1141	AAAAGATTTACCTGAGCAGCTTTCAGAGGAGGAGTGTGTTAGTCTGTTAGTCTGTTGAC	1200	Db	2548	TCGGAGGCTCATTTGGTGTCTGATGTTCCAAATGCTCCATACCTGATCTCTCCCA	2607
Db	1468	AAAAGATTTACCTGAGCAGCTTTCAGAGGAGGAGTGTGTTAGTCTGTTAGTCTGTTGAC	1527	QY	2281	CCTGGCCAAATACCGACCTGAAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT	1260	Db	2608	CCTGGCCAAATACCGACCTGAAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2667
Db	1528	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT	1587	QY	2341	TGGACAGCTCTGGGATGATTTATGACCATGGACAGCTCAAGTATATCTATCTCGAATA	2400
QY	1261	GGGGAAGACACACTATAGTGGGTCTTTACGAGGCTCAACAAAGTGGTGCCATCATC	1320				



Db 2668 TGGCAGAGCTCTGGGAGTATATGACCATGGAACAGCTCAACAAGTATATCATTCGAATA 2727  
Qy 2401 AGTACAAAGTATTTTGTATCTCAGACACAAAGTTCAATGAATCTCTCAAGTGAATATCTACT 2460  
Db 2728 AGTACAAAGTATTTTGTATCTCAGACACAAAGTTCAATGAATCTCTCAAGTGAATATCTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTGTAAACCCAGAAAACATT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTGTAAACCCAGAAAACATT 2847  
Qy 2521 ACTTTGAAATGGCAGAGATCTTTTCAATGCTATTAGGCTGTGTGATAAGTGCATCTG 2580  
Db 2848 ACTTTGAAATGGCAGAGATCTTTTCAATGCTATTAGGCTGTGTGATAAGTGCATCTG 2907  
Qy 2581 AAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA 2640  
Db 2908 AAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA 2967  
Qy 2641 GAGACACTAGTCTGATGAACGTCTGCTCTTGTCTCTTAATATTCATATCAACAGCACC 2700  
Db 2968 GAGACACTAGTCTGATGAACGTCTGCTCTTGTCTCTTAATATTCATATCAACAGCACC 3027  
Qy 2701 ATTCTGGCATTCACATTTTAAATTAATGTTGGAAGTGGATAGGAGAACTGCAGCTGCA 2760  
Db 3028 ATTCTGGCATTCACATTTTAAATTAATGTTGGAAGTGGATAGGAGAACTGCAGCTGCA 3087  
Qy 2761 ATAGCCTAGGCTGAAATTTTGTGAGATAAATAAATAAATCAATCTTCATCTT 2812  
Db 3088 ATAGCCTAGGCTGAAATTTTGTGAGATAAATAAATAAATCAATCTTCATCTT 3139

RESULT 10  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GAAATCAGAGGAGATGACAGCAATGGGGCAATTAAGAGTTCTGTGTTCACTTTGATT 60  
Db 328 GGAATCAGAGGAGATGACAGCAATGGGGCAATTAAGAGTTCTGTGTTCACTTTGATT 387  
Qy 61 CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTCATTAGCTGAACAAATGGCTAT 120  
Db 388 CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTCATTAGCTGAACAAATGGCTAT 447  
Qy 121 GAAGGCATTTGCTGTAATCGACCCCAATGTCGAGAGATGAACACTCAATCAACAA 180  
Db 448 GAAGGCATTTGCTGTAATCGACCCCAATGTCGAGAGATGAACACTCAATCAACAA 507  
Qy 181 ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
Db 508 ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567  
Qy 241 TATTTCAAAATGTTGCAATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300

Db 568 TATTTCAAAATGTTGCCATTTTGATCTCTGAAACATGGAAGCAAAAGGCTGACTATGTG 627  
Qy 301 AGACCAAAATCTTGAGACCTTACAAAATCTGATGTTCTTGTTGCTGAGTCTACTCTCTCCA 360  
Db 628 AGACCAAAATCTTGAGACCTTACAAAATCTGATGTTCTTGTTGCTGAGTCTACTCTCTCCA 687  
Qy 361 GGTAAATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTTGAAAGGATC 420  
Db 688 GGTAAATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTTGAAAGGATC 747  
Qy 421 CACCTCACTCTGATTTTCAATTTGAGGAAAAGTTAGCTGAATATGGAACCAAGGTAGG 480  
Db 748 CACCTCACTCTGATTTTCAATTTGAGGAAAAGTTAGCTGAATATGGAACCAAGGTAGG 807  
Qy 481 GCATTTGTCATGAGTGGGCTCATCTAGATGGGAGTATTTGACGAGTACAATAATGAT 540  
Db 808 GCATTTGTCATGAGTGGGCTCATCTAGATGGGAGTATTTGACGAGTACAATAATGAT 867  
Qy 541 GAGAAATTTACTTATCCAAATGGAAGAAATCAAGCAGTAAAGTGTTCAGCAGGTATTACT 600  
Db 868 GAGAAATTTACTTATCCAAATGGAAGAAATCAAGCAGTAAAGTGTTCAGCAGGTATTACT 927  
Qy 601 GGTACAAATCTAGTAAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCACATTC 660  
Db 928 GGTACAAATCTAGTAAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCACATTC 987  
Qy 661 AATAAAGTAAACAGACTCTATGATAAAGAGTGTGAGTGTTCCTCAATCCCGCAGACG 720  
Db 988 AATAAAGTAAACAGACTCTATGATAAAGAGTGTGAGTGTTCCTCAATCCCGCAGACG 780  
Qy 721 GAGAAGCTTCTATAATGTTTGCAACATGTTGATTTCTATAGTCTGAATTTCTGTACAGA 1107  
Db 1048 GAGAAGCTTCTATAATGTTTGCAACATGTTGATTTCTATAGTCTGAATTTCTGTACAGA 1167  
Qy 781 CAAACCAACAAAGAAAGCTCAAACAAAGCAAAATCAAAATGCAATCTCCGAAGCACA 840  
Db 1108 CAAACCAACAAAGAAAGCTCAAACAAAGCAAAATCAAAATGCAATCTCCGAAGCACA 1167  
Qy 841 TGGGAAGTGTATCGTATTTCTGAGACATTTAGAAAACCACTCTTATGACACAGACCA 900  
Db 1168 TGGGAAGTGTATCGTATTTCTGAGACTTTAAGAAAACCACTCTTATGACACAGACCA 1227  
Qy 901 CCAATTCACACCTTCTCATTTGCTGCAGATTGACAAAAGAAATTTGTTTACTGCTTGAC 960  
Db 1228 CCAATTCACACCTTCTCATTTGCTGCAGATTGACAAAAGAAATTTGTTTACTGCTTGAC 1287  
Qy 961 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1347  
Qy 1021 TTCCTGTGACAGACATTTGAGTGGGTCCTGGGTTGGATGGGTGACATTTGACAGTGT 1080  
Db 1348 TTCCTGTGACAGACATTTGAGTGGGTCCTGGGTTGGATGGGTGACATTTGACAGTGT 1407  
Qy 1081 GCCCATGPAACAAAGTAACTCATACAGATAAACAGTGGCAGTGAACAGGACACACTGCC 1140  
Db 1408 GCCCATGPAACAAAGTAACTCATACAGATAAACAGTGGCAGTGAACAGGACACACTGCC 1467  
Qy 1141 AAAGATTTACTTGCAGCAGCTTCAGGAGGAGCGTCCATCTGACGGGCTTCGATCGGCA 1200  
Db 1468 AAAGATTTACTTGCAGCAGCTTCAGGAGGAGCGTCCATCTGACGGGCTTCGATCGGCA 1527  
Qy 1201 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAATTTGCTGCTGACCGAT 1260  
Db 1528 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAATTTGCTGCTGACCGAT 1587  
Qy 1261 GGGGAAGACAACTATAAGTGGGTCTTTAAACAGGTCAAAACAAAGTGTGCTGATCATC 1320  
Db 1588 GGGGAAGACAACTATAAGTGGGTCTTTAAACAGGTCAAAACAAAGTGTGCTGATCATC 1647  
Qy 1321 CACACAGTCTGTTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA 1380  
Db 1648 CACACAGTCTGTTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA 1707

Qy	1381	GGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAACAANGGCGCTCATTTGATGCTTTT	1440
Db	1708	GGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAACAANGGCGCTCATTTGATGCTTTT	1767
Qy	1441	GGGGCCCTTTTCAATCAGGAAATGGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	1768	GGGGCCCTTTTCAATCAGGAAATGGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1827
Qy	1501	GGATTAAACCTCCAGAACAGCGAGTGGATGAATGGACAGTGCATCGTGGACAGACCGTG	1560
Db	1828	GGATTAAACCTCCAGAACAGCGAGTGGATGAATGGACAGTGCATCGTGGACAGACCGTG	1887
Qy	1561	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCCCTCCCAAAATCCTTCTCTGG	1620
Db	1898	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCCCTCCCAAAATCCTTCTCTGG	1947
Qy	1621	GATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGGACAAACACCAAAATGGCCCTAC	1680
Db	1948	GATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGGACAAACACCAAAATGGCCCTAC	2007
Qy	1681	CTCCAAATCCAGGCAATCTCTAAGTGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
Db	2008	CTCCAAATCCAGGCAATCTCTAAGTGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067
Qy	1741	CAAACCTTGACCCCTGACTGTCAAGTCCCGTGGCTCAATGTCTACCTGCTCCAAATTACA	1800
Db	2068	CAAACCTTGACCCCTGACTGTCAAGTCCCGTGGCTCAATGTCTACCTGCTCCAAATTACA	2127
Qy	1801	GTGACTTCCAAACGAAAGGACAGCAGCAAGTTCACGAGCCCTCTGGTAGTTTATGCA	1860
Db	2128	GTGACTTCCAAACGAAAGGACAGCAGCAAGTTCACGAGCCCTCTGGTAGTTTATGCA	2187
Qy	1861	AATATTCGCAAGGAGCTCCCAATCTCAGGCGCAGTGTCAAGCCCTGTGATGAATCA	1920
Db	2188	AATATTCGCAAGGAGCTCCCAATCTCAGGCGCAGTGTCAAGCCCTGTGATGAATCA	2247
Qy	1921	GTGAATGGAAAAACAGTTACTCTTGGAACTATGTGAATATGAGAGAGTGTGATGCTACT	1980
Db	2248	GTGAATGGAAAAACAGTTACTCTTGGAACTATGTGAATATGAGAGAGTGTGATGCTACT	2307
Qy	1981	AAGATGACGGTGTCTACTCAAGTATTTACAGTATTTACAGTATTTACAGTATTTACAGT	2040
Db	2308	AAGATGACGGTGTCTACTCAAGTATTTACAGTATTTACAGTATTTACAGTATTTACAGT	2367
Qy	2041	GTAAGTGTGGGCTCTGGAGGAGTGTAAACGAGCCAGAGAGTGTATACCCCGAG	2100
Db	2368	GTAAGTGTGGGCTCTGGAGGAGTGTAAACGAGCCAGAGAGTGTATACCCCGAG	2427
Qy	2101	AGTGGAGCCTGTACATACCTGGCTGGATGAGATGATGAATGAAATGAAATGCCACA	2160
Db	2428	AGTGGAGCCTGTACATACCTGGCTGGATGAGATGATGAATGAAATGAAATGCCACA	2487
Qy	2161	AGACTGAAATTAATAGGATGATGTTCACACAGCAAGTGTGTTTCAGACAGAACATCC	2220
Db	2488	AGACTGAAATTAATAGGATGATGTTCACACAGCAAGTGTGTTTCAGACAGAACATCC	2547
Qy	2221	TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTCCCA	2280
Db	2548	TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTCCCA	2607
Qy	2281	CCTGCCAAATCACCGACTGAGCGGAAATTCAGGGGGGAGTCTCATTAATCTGACT	2340
Db	2608	CCTGCCAAATCACCGACTGAGCGGAAATTCAGGGGGGAGTCTCATTAATCTGACT	2667
Qy	2341	TGGACAGCTCTCGGGGATGATTTATGACCATGAAACAGCTCACAAGTATATCATTCGAATA	2400
Db	2668	TGGACAGCTCTCGGGGATGATTTATGACCATGAAACAGCTCACAAGTATATCATTCGAATA	2727
Qy	2401	AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATCTACT	2460
Db	2728	AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATCTACT	2787
Qy	2461	GCTCTCATCCCAAAGGAGCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAACATTT	2520
Db	2788	GCTCTCATCCCAAAGGAGCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAACATTT	2847
Qy	2521	ACTTTTGAATATGSCACAGATCTTTTCAATCTTCAAGGCTGTGTGATAAGGTCGATCTG	2580
Db	2848	ACTTTTGAATATGSCACAGATCTTTTCAATCTTCAAGGCTGTGTGATAAGGTCGATCTG	2907
Qy	2581	AAATCAGAAATATCCAAACATTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCA	2640
Db	2908	AAATCAGAAATATCCAAACATTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCA	2967
Qy	2641	GAGACACCTAGTCTGATGAAACGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2700
Db	2968	GAGACACCTAGTCTGATGAAACGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	3027
Qy	2701	ATTCTCTGCAATTCACATTTTAAATTTATGTGAAAGTGTAGTAGGAGAACTGCAGCTGTCA	2760
Db	3028	ATTCTCTGCAATTCACATTTTAAATTTATGTGAAAGTGTAGTAGGAGAACTGCAGCTGTCA	3087
Qy	2761	ATAGCTTAGGGCTGAATTTTCTCAGATAAATAAATAAATAAATCATTCATCTT	2812
Db	3088	ATAGCTTAGGGCTGAATTTTCTCAGATAAATAAATAAATAAATCATTCATCTT	3139
RESULT 11			
US-10-393-590-12			
; Sequence 12, Application US/10393590			
; Publication No. US20030190656A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO			
; FILE REFERENCE: CDS 268 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,590			
; CURRENT FILING DATE: 2003-03-21			
; PRIOR APPLICATION NUMBER: 60/368,789			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 12			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-590-12			
Query Match 99.8%; Score 2807.2; DB 15; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
Qy	1	GAATTCACAGGAGATGTACAGCAATGGGCGCATTTAAGAGTCTCTGTTCTCATCTGATT	60
Db	328	GGAAATCACAGGAGATGTACAGCAATGGGCGCATTTAAGAGTCTCTGTTCTCATCTGATT	387
Qy	61	CTTCACCTTCTAGAGGGGCGCTCAGTAATTCATCTCATTAGCTGAAACAAATGGCTAT	120
Db	388	CTTCACCTTCTAGAGGGGCGCTCAGTAATTCATCTCATTAGCTGAAACAAATGGCTAT	447
Qy	121	GAAGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCACAA	180
Db	448	GAAGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCACAA	507
Qy	181	ATAAGGACATGGTGACCCGCAATCTCTGATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	508	ATAAGGACATGGTGACCCGCAATCTCTGATCTGTTTGAAGCTACAGGAAGCGATT	567
Qy	241	TATTTCAAAATGTTGCCATTTTGTCTGAAACATGGAACAAACAAAGGCTGACTATGTG	300
Db	568	TATTTCAAAATGTTGCCATTTTGTCTGAAACATGGAACAAACAAAGGCTGACTATGTG	627
Qy	301	AGACCAAACTTGAGACCTTACAAAATGCTGAATGTTGTTGCTGAGTCTACTCTCCA	360
Db	628	AGACCAAACTTGAGACCTTACAAAATGCTGAATGTTGTTGCTGAGTCTACTCTCCA	687

QY 361 GGTAAATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTGAAGGATC 420  
Db 688 GGTAAATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGTGAAGGATC 747  
QY 421 CACCTCACTCTGATTTTCATTTGCGAGGAAAAGTTAGCTGATATATGACCAACAGGTAGG 480  
Db 748 CACCTCACTCTGATTTTCATTTGCGAGGAAAAGTTAGCTGATATATGACCAACAGGTAGG 807  
QY 481 GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 540  
Db 808 GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 867  
QY 541 GAGAAATCTACTTATCCATGGAAGAATAACAGAGTAAGATTTTCAGCAGGTATTAAT 600  
Db 868 GAGAAATCTACTTATCCATGGAAGAATAACAGAGTAAGATTTTCAGCAGGTATTAAT 927  
QY 601 GGTACAAATGCTAGTAAAGAAAGTGTACGAGGAGGAGCTGTTACACCAAAAGATGCATTC 660  
Db 928 GGTACAAATGCTAGTAAAGAAAGTGTACGAGGAGGAGCTGTTACACCAAAAGATGCATTC 987  
QY 661 AATAAGTAAACAGACTCTATGAAAAAGATGTGAGTTGTTCTCCCAATCCCGCAGAG 720  
Db 988 AATAAGTAAACAGACTCTATGAAAAAGATGTGAGTTGTTCTCCCAATCCCGCAGAG 1047  
QY 721 GAGAGGCTTCTATATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db 1048 GAGAGGCTTCTATATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
QY 781 CAAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGGACA 840  
Db 1108 CAAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGGACA 1167  
QY 841 TGGGAAGTATCGTGAATCTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGAGCA 900  
Db 1168 TGGGAAGTATCGTGAATCTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGAGCA 1227  
QY 901 CCAAAATCCCACTTCTCATTTGTCAGATGAGCAAGAAATGTTGTTAGTCTTTGAC 960  
Db 1228 CCAAAATCCCACTTCTCATTTGTCAGATGAGCAAGAAATGTTGTTAGTCTTTGAC 1287  
QY 961 AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTCAATCAAGCAGGCGAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTCAATCAAGCAGGCGAGCTT 1347  
QY 1021 TTCCTGTCGACAGATTTGAGCTGGGCTCCTGGGTTGGGATGGTGACATTTGACAGTGT 1080  
Db 1348 TTCCTGTCGACAGATTTGAGCTGGGCTCCTGGGTTGGGATGGTGACATTTGACAGTGT 1407  
QY 1081 GCCCATGTACAAGTGAACCTATACAGATAAACAGTGGCAGTGAACAGGACACATCGCC 1140  
Db 1408 GCCCATGTACAAGTGAACCTATACAGATAAACAGTGGCAGTGAACAGGACACATCGCC 1467  
QY 1141 AAAAGATTACCTGACAGACTTCAGAGGAGCGTCCATCTGACGCGGCTTCGATCGGCA 1200  
Db 1468 AAAAGATTACCTGACAGACTTCAGAGGAGCGTCCATCTGACGCGGCTTCGATCGGCA 1527  
QY 1201 TTTTACTGTGATAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGTCGACGAT 1260  
Db 1528 TTTTACTGTGATAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGTCGACGAT 1587  
QY 1261 GGGGAGAGCAACACTATTAAGTGGGTGCTTTAACGAGGTCAACAAAGTGGTGGCCATATC 1320  
Db 1588 GGGGAGAGCAACACTATTAAGTGGGTGCTTTAACGAGGTCAACAAAGTGGTGGCCATATC 1647  
QY 1321 CACACAGTCGCTTTGGGCGCTTCGACGCTCAAGACTAGAGGAGCTGTCCAAATGACA 1380  
Db 1648 CACACAGTCGCTTTGGGCGCTTCGACGCTCAAGACTAGAGGAGCTGTCCAAATGACA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACATGCGCTCATTTGAGTCTTT 1440  
Db 1708 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACATGCGCTCATTTGAGTCTTT 1767  
QY 1441 GGGGCCCTTTTCATCAGGAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500

Db 1768 GGGGCCCTTTTCATCAGGAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
QY 1501 GGATTAACCTTCCAGAACAGCAGCTGGATGAATGSCACAGTGAATGCGACAGCCGTG 1560  
Db 1828 GGATTAACCTTCCAGAACAGCAGCTGGATGAATGSCACAGTGAATGCGACAGCCGTG 1887  
QY 1561 GGAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCGCTCCCAAAATCCTTCTCTGG 1620  
Db 1888 GGAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCGCTCCCAAAATCCTTCTCTGG 1947  
QY 1621 GATCCAGTGGACAGAACAGAGTGGCTTTGTAGTGACAAAAACACAAATGSCCTAC 1680  
Db 1948 GATCCAGTGGACAGAACAGAGTGGCTTTGTAGTGACAAAAACACAAATGSCCTAC 2007  
QY 1681 CTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
Db 2008 CTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
QY 1741 CAAACCTTGACCTGACTGTCAGTCCCGTGGTCCCAATGCTACCTGCTCCCAATTACA 1800  
Db 2068 CAAACCTTGACCTGACTGTCAGTCCCGTGGTCCCAATGCTACCTGCTCCCAATTACA 2127  
QY 1801 GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCGAGCCTCTGGTAGTTATGCA 1860  
Db 2128 GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCGAGCCTCTGGTAGTTATGCA 2187  
QY 1861 AATATTGCGCAAGAGCCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATGATCA 1920  
Db 2188 AATATTGCGCAAGAGCCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATGATCA 2247  
QY 1921 GTGAATGGAATAACAGTTACTTGGAACTACTGGAATAATGGAGCAGTGTGATGCTACT 1980  
Db 2248 GTGAATGGAATAACAGTTACTTGGAACTACTGGAATAATGGAGCAGTGTGATGCTACT 2307  
QY 1981 AAGGATGACGCTGTCTACTCAAGGATTTTCAAACTTATGACACGAAATGGTAGATCAGT 2040  
Db 2308 AAGGATGACGCTGTCTACTCAAGGATTTTCAAACTTATGACACGAAATGGTAGATCAGT 2367  
QY 2041 GTAAAAGTGGCGGCTCTGGAGGAGTTAACGAGCCAGCAGAGAGTGTATCCCGAGCAG 2100  
Db 2368 GTAAAAGTGGCGGCTCTGGAGGAGTTAACGAGCCAGCAGAGAGTGTATCCCGAGCAG 2427  
QY 2101 AGTGAGACCTGTATACATCTGGCTGGATGGAATGATGAATCAATGGAATCCACCA 2160  
Db 2428 AGTGAGACCTGTATACATCTGGCTGGATGGAATGATGAATCAATGGAATCCACCA 2487  
QY 2161 AGACCTGAAATTAATAAGGATGATTTCAACAAAGCAAGTGTGTTTCAGCAGAAATCC 2220  
Db 2488 AGACCTGAAATTAATAAGGATGATTTCAACAAAGCAAGTGTGTTTCAGCAGAAATCC 2547  
QY 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTCTCCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTCTCCCA 2607  
QY 2291 CCTGGCCAAATCACCGACCTGAAAGCGGAATTCACGGGGCAGTCTCATTAATCTGAT 2340  
Db 2608 CCTGGCCAAATCACCGACCTGAAAGCGGAATTCACGGGGCAGTCTCATTAATCTGAT 2667  
QY 2341 TGGACAGCTCTGGGAGTATGATGACATGGAACAGCTCAAGTATATCATTCGAATA 2400  
Db 2668 TGGACAGCTCTGGGAGTATGATGACATGGAACAGCTCAAGTATATCATTCGAATA 2727  
QY 2401 AGTACAAAGTATTTCTGATCTCAGAGCAAGTCAATGAATCTCTCAAGTGAATACTACT 2460  
Db 2728 AGTACAAAGTATTTCTGATCTCAGAGCAAGTCAATGAATCTCTCAAGTGAATACTACT 2787  
QY 2461 GCTCTATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATT 2520  
Db 2788 GCTCTATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATT 2847  
QY 2521 ACTTTTGAATTCGACAGATCTTTTTCATTTGCTATTCAGGCTGTGATGAAGTGCATCTG 2580

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Db	2848	ACTTTTGAATAATGCGACAGATCTTTTCATTGCTATTTCAGGCTGTGATAGGTCGATCTG	2907
Qy	2581	AAATCGAATAATCCAAATTTGCACGAGTACTTTGTTTATTCTTCTCCACAGACTCCGCCA	2640
Db	2908	AAATCGAATAATCCAAATTTGCACGAGTACTTTGTTTATTCTTCTCCACAGACTCCGCCA	2967
Qy	2641	GAGACACTAGTCCTGATGATAAAGCTGCTGCTCTTGTCTTAATATTCATATCAACAGCACC	2700
Db	2968	GAGACACTAGTCCTGATGATAAAGCTGCTGCTCTTGTCTTAATATTCATATCAACAGCACC	3027
Qy	2701	ATTCCTGGCATTCACATTTTAAAAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA	2760
Db	3028	ATTCCTGGCATTCACATTTTAAAAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA	3087
Qy	2761	ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATAATCAATTCATCTT	2812
Db	3088	ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATAATCAATTCATCTT	3139
RESULT 12			
US-10-393-590-46			
; Sequence 46, Application US/10393590			
; Publication No. US20030190656A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO			
; FILE REFERENCE: CDS 268 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,590			
; CURRENT FILING DATE: 2003-03-21			
; PRIOR APPLICATION NUMBER: 60/368,789			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 46			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-590-46			
Query Match 99.8%; Score 2807.2; DB 15; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0			
Qy	1	GAAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTGATT	60
Db	328	GGAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTGATT	387
Qy	61	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCACCTATTTCAGCTGAAACAACAATGGCTAT	120
Db	388	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCACCTATTTCAGCTGAAACAACAATGGCTAT	447
Qy	121	GAAGGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAACAATTCACAA	180
Db	448	GAAGGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAACAATTCACAA	507
Qy	181	ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	508	ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	567
Qy	241	TATTTCAAAAATCTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	300
Db	568	TATTTCAAAAATCTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	627
Qy	301	AGACCAAACTTGAGACCTACAAAATAGTGTGTTCTGGTTCGTGAGTCTACTCTCCA	360
Db	628	AGACCAAACTTGAGACCTACAAAATAGTGTGTTCTGGTTCGTGAGTCTACTCTCCA	687
Qy	361	GGTAATGATGAACCTTACACTGAGCAGATGGGCAATGTGGAGAGAGGTTGAAAGATC	420
Db	688	GGTAATGATGAACCTTACACTGAGCAGATGGGCAATGTGGAGAGAGGTTGAAAGATC	747
Qy	421	CACCTCCTCTGATTTTCATTGAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG	480

QY	1561	GGAAAGGACATTTTGTTCCTTATCACCTGGACAAAGCAGCCTCCCAAATCCTTCTCTGG	1621
DB	1888	GGAAAGGACATTTTGTTCCTTATCACCTGGACAAAGCAGCCTCCCAAATCCTTCTCTGG	1947
QY	1621	GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACAAAAACACAAAATGCCCTAC	1680
DB	1948	GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACAAAAACACAAAATGCCCTAC	2007
QY	1681	CTCCAAATCCCAAGGCATTGCTTAAGTTGGCACTTTGGAAATACAGTCTCGACGAGTCA	1740
DB	2008	CTCCAAATCCCAAGGCATTGCTTAAGTTGGCACTTTGGAAATACAGTCTCGACGAGTCA	2067
QY	1741	CAAACTTTGACCTGACTGTCACTGCCGTGCGTCCCAATGCTACCCCTGCCCTCAAAATPACA	1800
DB	2068	CAAACTTTGACCTGACTGTCACTGCCGTGCGTCCCAATGCTACCCCTGCCCTCAAAATPACA	2127
QY	1801	GTGACTTCCAAAAAGAACAGGACACACAGCAAAATTCGCCAGCCCTCTGGTAGTTATGCA	1860
DB	2128	GTGACTTCCAAAAAGAACAGGACACACAGCAAAATTCGCCAGCCCTCTGGTAGTTATGCA	2187
QY	1861	AATATTGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTCTCACAGCCCTGATTGAATCA	1920
DB	2188	AATATTGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTCTCACAGCCCTGATTGAATCA	2247
QY	1921	GTGAATGGAAAAACAGTTACTCTTGGAACTACTTGGATAATGGAGCAGGTGCTGATCTACT	1980
DB	2248	GTGAATGGAAAAACAGTTACTCTTGGAACTACTTGGATAATGGAGCAGGTGCTGATCTACT	2307
QY	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACGAATGGTAGATACAGT	2040
DB	2308	AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACGAATGGTAGATACAGT	2367
QY	2041	GTAAGTGTGGGGCTCTGGCAGGAGTTAAACGACGACAGCGAGAGTGATACCCAGCAG	2100
DB	2368	GTAAGTGTGGGGCTCTGGCAGGAGTTAAACGACGACAGCGAGAGTGATACCCAGCAG	2427
QY	2101	AGTGGACACTGTACATACCTCTGGCTGGATTGAGAATGATCAAAATACAATGGAAATCCACCA	2160
DB	2428	AGTGGACACTGTACATACCTCTGGCTGGATTGAGAATGATCAAAATACAATGGAAATCCACCA	2487
QY	2161	AGACCTGAAATTAATAGGATGATGTTCAACAACGAAGTGTGTTTCAGCAGAAATCATCC	2220
DB	2488	AGACCTGAAATTAATAGGATGATGTTCAACAACGAAGTGTGTTTCAGCAGAAATCATCC	2547
QY	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAATGCTCCCATACCTGATCTCTTCCCA	2280
DB	2548	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAATGCTCCCATACCTGATCTCTTCCCA	2607
QY	2281	CCTGGCCAAATACCGACCTGAAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
DB	2608	CCTGGCCAAATACCGACCTGAAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2667
QY	2341	TGGACAGCTCCTGGGATGATTAATGACCATGGAAACAGCTCAACAGTATATCATTCGAATA	2400
DB	2668	TGGACAGCTCCTGGGATGATTAATGACCATGGAAACAGCTCAACAGTATATCATTCGAATA	2727
QY	2401	AGTACAAGTATTTCTTGATCTCAGAGACAGTTCATGAAATCTCTTCAAGTGAATCTACT	2460
DB	2728	AGTACAAGTATTTCTTGATCTCAGAGACAGTTCATGAAATCTCTTCAAGTGAATCTACT	2787
QY	2461	GCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTTTAAACACGAAAAACATT	2520
DB	2788	GCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTTTAAACACGAAAAACATT	2847
QY	2521	ACTTTTGAAAAATGGACAGATCTTTTCATGTGCTAATTCAGGCTGTTGATAAGGTGATCTG	2580
DB	2848	ACTTTTGAAAAATGGACAGATCTTTTCATGTGCTAATTCAGGCTGTTGATAAGGTGATCTG	2907
QY	2581	AAATCAGAAATATCCAAACATTCGACAGATCTTTTGTTTATTTCTTCCACAGATCCGGCA	2640
DB	2908	AAATCAGAAATATCCAAACATTCGACAGATCTTTTGTTTATTTCTTCCACAGATCCGGCA	2967

QY	2641	GAGACACCTAGTCTCTGATGAAACCTCTGCTCCTTGTCTCTAATATTCATATCAACAGCACC	2700
Db	2968	GAGACACCTAGTCTCTGATGAAACCTCTGCTCCTTGTCTCTAATATTCATATCAACAGCACC	3027
QY	2701	ATTCTGGCATTTCACATTTTAAAAAATATGTGGAAAGTGGATAGAGAACTGCAGCTGTCA	2760
Db	3028	ATTCTGGCATTTCACATTTTAAAAAATATGTGGAAAGTGGATAGAGAACTGCAGCTGTCA	3087
QY	2761	ATAGCCTAGGCTCAATTTTGTGCAGATAAATAAAATCAATTCATTCCTT	2812
Db	3088	ATAGCCTAGGCTCAATTTTGTGCAGATAAATAAAATCAATTCATTCCTT	3139
RESULT 13			
US-10-393-590-47			
; Sequence 47, Application US/10393590			
; Publication No. US20030190656A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO			
; FILE REFERENCE: CDS 268 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,590			
; CURRENT FILING DATE: 2003-03-21			
; PRIOR APPLICATION NUMBER: 60/368,789			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 47			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-590-47			

Query Match.	99.8%;	Score 2807.2;	DB 15;	Length 3311;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 2809;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;
QY	1	GAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCTCATCTTTGATT	60	
Db	328	GGAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCTCATCTTTGATT	387	
QY	61	CTTTCACCTTCTAGAAGGGGCCCTGAGTAATTCACCTCATTTCAGCTGAACAACAATGGCTAT	120	
Db	388	CTTTCACCTTCTAGAAGGGGCCCTGAGTAATTCACCTCATTTCAGCTGAACAACAATGGCTAT	447	
QY	121	GAAGGCATTGTGTTGCCAATCGACCCCAATGTGCCAGAGATGAACAATCTCATTTCAACAA	180	
Db	448	GAAGGCATTGTGTTGCCAATCGACCCCAATGTGCCAGAGATGAACAATCTCATTTCAACAA	507	
QY	181	ATAAAGGCATGTGTACCCAGGCATCTCTGATCTCTGTTTGAAGCTACAGGAAGCGATT	240	
Db	508	ATAAAGGCATGTGTGACCCAGGCATCTCTGATCTCTGTTTGAAGCTACAGGAAGCGATT	567	
QY	241	TATTTCAAAAATGTTGCCATTTTGATTTCTGAAACATGGAAGACAAAAGCGTCACTATGTG	300	
Db	568	TATTTCAAAAATGTTGCCATTTTGATTTCTGAAACATGGAAGACAAAAGCGTCACTATGTG	627	
QY	301	AGACCAAAACTTTGAGACTCAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA	360	
Db	628	AGACCAAAACTTTGAGACTCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA	687	
QY	361	GGTAATGATGAACCTTACACTGAGCAGATGGCACTGTGGAGAGAGGGTGAAGGATC	420	
Db	688	GGTAATGATGAACCCCTACACTGAGCAGATGGCACTGTGGAGAGAGGGTGAAGGATC	747	
QY	421	CACCTCACTCTGATTTCATTTCAGGAAAAAAGTTAGCTGAATATGGACCAACAAGGTAGG	480	
Db	748	CACCTCACTCTGATTTCATTTCAGGAAAAAAGTTAGCTGAATATGGNCCACACAGGTAA	807	
QY	481	GCATTGTGTCATGAGTGGGCTCACTACGATGGGAGTATTTGACGAGTACAATAATGAT	540	
Db	808	GCATTGTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT	867	

QY	541	GAGAAATTTCTACTTATCCAAATGGAAGANTACAAGCAGTAAGTGTTCAGCAGGTATTACT	600	Db	1948	GATCCAGTGACAGAGCAAGCAAGTGGCTTTGTAGTGGACAAAAACCAAAATGSCCTAC	2007
Db	568	GAGAAATTTCTACTTATCCAAATGGAAGANTACAAGCAGTAAGTGTTCAGCAGGTATTACT	927	QY	1681	CTCCAAATCCAGAGCATTTGCTAAGTTGGCACTTGGAAATACAGTCTCAGCAAGCTCA	1740
QY	601	GCTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTACACCAAAAGATGCAATTC	660	Db	2008	CTCCAAATCCAGAGCATTTGCTAAGTTGGCACTTGGAAATACAGTCTCAGCAAGCTCA	2067
Db	928	GCTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTACACCAAAAGATGCAATTC	987	QY	1741	CAAACTTTGACCTGACTGTCAAGTCCCGTGGCTCCAAATGCTTACCTGCTCCCAATTACA	1800
QY	661	AATAAGTAACAGGACTCTATGAAAGAGATGTGATTTGTTCTCAATCCCGCCAGAGG	720	Db	2068	CAAACTTTGACCTGACTGTCAAGTCCCGTGGCTCCAAATGCTTACCTGCTCCCAATTACA	2127
Db	988	AATAAGTTACAGGACTCTATGAAAGAGATGTGATTTGTTCTCAATCCCGCCAGAGG	1047	QY	1801	GTGACTTTCCAAAAAGAACAGGACACACGCAAAATTTCCCGAGCCCTCTGCTAGTTATGCA	1860
QY	721	GAGAGGCTTCTATATGTTTGCAACAATGTTGATTTCTATAGTTGAAATTCGTACAGAA	780	Db	2128	GTGACTTTCCAAAAAGAACAGGACACACGCAAAATTTCCCGAGCCCTCTGCTAGTTATGCA	2187
Db	1048	GAGAGGCTTCTATATGTTTGCAACAATGTTGATTTCTATAGTTGAAATTCGTACAGAA	1107	QY	1861	AAATITCGCAAGAGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTCGAATCA	1920
QY	781	CAAAACCAACAAGAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAAGCACA	840	Db	2188	AAATITCGCAAGAGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTCGAATCA	2247
Db	1108	CAAAACCAACAAGAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAAGCACA	1167	QY	1921	GTGAATGAAAAACAGTTTACCTTGGAACTTCTGGAATTAATGGAGCAGGTGCTGATGCTACT	1980
QY	841	TGGGAAGTATCCGTGATTTCTGAGGACTTTTAAAGAAACCACTCTATGCAACACAGCCA	900	Db	2248	GTGAATGAAAAACAGTTTACCTTGGAACTTCTGGAATTAATGGAGCAGGTGCTGATGCTACT	2307
Db	1168	TGGGAAGTATCCGTGATTTCTGAGGACTTTTAAAGAAACCACTCTATGCAACACAGCCA	1227	QY	1981	AAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT	2040
QY	901	CCAAATCCCACTTCTCATTTGCTGCAATGATTTGCAAGAAATTTGTTGTTAGTCTTGAC	960	Db	2308	AAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT	2367
Db	1228	CCAAATCCCACTTCTCATTTGCTGCAATGATTTGCAAGAAATTTGTTGTTAGTCTTGAC	1287	QY	2041	GTAAAAGTGGGGCTCTGGGAGGATTAACGGCAGCCAGACGGAGGTGATACCCAGCAG	2100
QY	961	AAATCTGGAAGCATGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020	Db	2368	GTAAAAGTGGGGCTCTGGGAGGATTAACGGCAGCCAGACGGAGGTGATACCCAGCAG	2427
Db	1288	AAATCTGGAAGCATGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1347	QY	2101	AGTGAGACACTCTACATACCTGGCTGGATTGAGAATGATGAATAACAATGGAATCCACCA	2160
QY	1021	TTCTCTGCTGACAGACTTCAAGTGGGGTCTGGTTGGATGGATGATGATGATGATGATG	1080	Db	2428	AGTGAGACACTCTACATACCTGGCTGGATTGAGAATGATGAATAACAATGGAATCCACCA	2487
Db	1348	TTCTCTGCTGACAGACTTCAAGTGGGGTCTGGTTGGATGGATGATGATGATGATGATG	1407	QY	2161	AGACCTGAAATTAATAAGGATGATTTCAACAAGCAAGTGTGTTTCAGAGCAATCC	2220
QY	1081	GCCCATGTAAGTGAATCTACAGATAAAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG	1140	Db	2488	AGACCTGAAATTAATAAGGATGATTTCAACAAGCAAGTGTGTTTCAGAGCAATCC	2547
Db	1408	GCCCATGTAAGTGAATCTACAGATAAAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG	1467	QY	2221	TGGGAGGCTCATTTTGGCTTCTGATGTCCTCAATGTCCTCCATCTCTCTCTCTCTCTCT	2280
QY	1141	AAAGATTAACCTGCAGCAGCTTCAAGGAGGACCTCCATCTGACGCGGGCTTCGATCGGCA	1200	Db	2548	TGGGAGGCTCATTTTGGCTTCTGATGTCCTCAATGTCCTCCATCTCTCTCTCTCTCTCT	2607
Db	1468	AAAGATTAACCTGCAGCAGCTTCAAGGAGGACCTCCATCTGACGCGGGCTTCGATCGGCA	1527	QY	2281	CCTGGCCAAATCACCCAGCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACT	2340
QY	1201	TTTACTGTGATTAAGGAAATATCCAACTGATGATGATGATGATGATGATGATGATGATG	1260	Db	2608	CCTGGCCAAATCACCCAGCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACT	2667
Db	1528	TTTACTGTGATTAAGGAAATATCCAACTGATGATGATGATGATGATGATGATGATGATG	1587	QY	2341	TGGACAGCTCCTGGGATGATTTATGACATGGAACAGCTCAAGTATATCATTCGAATA	2400
QY	1261	GGGGAAGACAACTATAAGTGGTGTCTTAAAGAGTCAAAACAAAGTGGTGGCATCATC	1320	Db	2668	TGGACAGCTCCTGGGATGATTTATGACATGGAACAGCTCAAGTATATCATTCGAATA	2727
Db	1588	GGGGAAGACAACTATAAGTGGTGTCTTAAAGAGTCAAAACAAAGTGGTGGCATCATC	1647	QY	2401	AGTACAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACT	2460
QY	1321	CACACAGTCTGTTTGGGCGCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA	1380	Db	2728	AGTACAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACT	2787
Db	1648	CACACAGTCTGTTTGGGCGCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA	1707	QY	2461	GCTCTCATCCAAAGGAAGCCAACTCTGAGAAAGTCTTTTGTTTAAACAGAAAAACATT	2520
QY	1381	GGAGGTTTACAGACATATGCTCAGATCAAGTTCAAGAACTAGAGGAGTGTCCAAAATGACA	1440	Db	2788	GCTCTCATCCAAAGGAAGCCAACTCTGAGAAAGTCTTTTGTTTAAACAGAAAAACATT	2847
Db	1708	GGAGGTTTACAGACATATGCTCAGATCAAGTTCAAGAACTAGAGGAGTGTCCAAAATGACA	1767	QY	2521	ACTTTTGAATGGGACAGATCTTTTCTATTTGCTGATTCAGCTGTTGATGAGTCTGATCTG	2580
QY	1441	GGGCGCTTTTCAACAGAAATGAGTGTCTCTCAGGGCTCCATCCAGCTTGGAGTGAAG	1500	Db	2848	ACTTTTGAATGGGACAGATCTTTTCTATTTGCTGATTTGAGGTCGATCTG	2907
Db	1768	GGGCGCTTTTCAACAGAAATGAGTGTCTCTCAGGGCTCCATCCAGCTTGGAGTGAAG	1827	QY	2581	AAATCAGAAATATCCCAACATTTGCACGAGTATCTTTGTTTATCTCTCAGAGCTCCGCCA	2640
QY	1501	GGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAAGTGTGTTGGAGCAGCCGTG	1560	Db	2908	AAATCAGAAATATCCCAACATTTGCACGAGTATCTTTGTTTATCTCTCAGAGCTCCGCCA	2967
Db	1828	GGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAAGTGTGTTGGAGCAGCCGTG	1887	QY	2641	GAGACACTAGTCTCTGATGAAGAGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2700
QY	1561	GGAAAGACACTTTGTTTCTTATCACTGGACAGCAGCTCCCAAAATCTCTCTCTCTCT	1620	Db	2968	GAGACACTAGTCTCTGATGAAGAGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	3027
Db	1888	GGAAAGACACTTTGTTTCTTATCACTGGACAGCAGCTCCCAAAATCTCTCTCTCTCT	1947	QY	2701	ATTCTCTGGGATTCACATTTTAAAAATTTATGTTGGAGTGGATGAGAGTCTGACGCTGCA	2760



Db 3028 ATTCCTGGCAATTCACATTTTAAATAATATGTGAAAGTGGATAGGAGAACTGCAGCTGTCA 3087  
QY 2761 ATAGCTAGGGCTGAATTTTCTCAGATAAATAAATAAATCAATTCATCCTT 2812  
Db 3088 ATAGCTAGGGCTGAATTTTCTCAGATAAATAAATAAATCAATTCATCCTT 3139

## RESULT 14

US-10-393-567-11  
; Sequence 11, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
; US-10-393-567-11

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCACAGGGAGATGTACAGCAATGGGCCAATTTAAGAGTTCTGTGTTTCATCTTCATT 60  
Db 328 GGAATCACAGGGAGATGTACAGCAATGGGCCAATTTAAGAGTTCTGTGTTTCATCTTCATT 387  
QY 61 CTTCACTCTTAGAGGGGCCCTGAGTAATTCATCTATTAGTGAACAACAATGGCTAT 120  
Db 388 CTTCACTCTTAGAGGGGCCCTGAGTAATTCATCTATTAGTGAACAACAATGGCTAT 447  
QY 121 GAAGGCATTTGCTTGGCAATCGACCCCAATGTCCAGAGATGAACACACTCATTCAACAA 180  
Db 448 GAAGGCATTTGCTTGGCAATCGACCCCAATGTCCAGAGATGAACACACTCATTCAACAA 507  
QY 181 ATAAAGACATGGTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAGCGATT 240  
Db 508 ATAAAGACATGGTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAGCGATT 567  
QY 241 TATTTCAAAAATGTTGCCAATTTTGTATCTCTGAAACATGGAAGCAAGGCTGACTATGTG 300  
Db 568 TATTTCAAAAATGTTGCCAATTTTGTATCTCTGAAACATGGAAGCAAGGCTGACTATGTG 627  
QY 301 AGACCAAAACTTGACACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCA 360  
Db 628 AGACCAAAACTTGACACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCA 687  
QY 361 GGTATATGTAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATC 420  
Db 688 GGTATATGTAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATC 747  
QY 421 CACCTCACTCTGATTTCAATTCAGGAAAGATGTTAGTGAATATGGACCAAGGTTAGG 480  
Db 748 CACCTCACTCTGATTTCAATTCAGGAAAGATGTTAGTGAATATGGACCAAGGTTAGG 807  
QY 481 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTTGAGAGGTACAAATATGAT 540  
Db 808 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTTGAGAGGTACAAATATGAT 867  
QY 541 GAGAAATCTACTTATCCAAATGGAAGAATACAGCAGTAAGATGTTTCAGAGGTATTAAT 600  
Db 868 GAGAAATCTACTTATCCAAATGGAAGAATACAGCAGTAAGATGTTTCAGAGGTATTAAT 927  
QY 601 GGTACAAATGTAGTAAGAGTGTACGGAGGAGCTGTTACACCAAAAGATGCACATTC 660  
Db

Db 928 GGTAACAATGTAGTAAAGAAGTGTGAGGAGGAGCTGTTACACCAAAAGATGCACATTC 987  
QY 661 AATAAGTAAACAGGACTCTATGAAAAGAGTGTGAGTTGTTCTCCATCCCGCCAGAG 720  
Db 988 AATAAGTAAACAGGACTCTATGAAAAGAGTGTGAGTTGTTCTCCATCCCGCCAGAG 1047  
QY 721 GAGAAGGCTTCTAATAATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db 1048 GAGAAGGCTTCTAATAATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
QY 781 CAAAACCAACAAGAGCTCCAAACCAAGCAAAATCAAAAATCAAAATCAATCTCCGAAGCACA 840  
Db 1108 CAAAACCAACAAGAGCTCCAAACCAAGCAAAATCAAAAATCAAAATCAATCTCCGAAGCACA 1167  
QY 841 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTTAAAGAAAACCACTCTCTATGACAAACAGCA 900  
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QY 901 CCAAAATCCACCTTCTCATTTGCTGACAGATTGGACAAAGAAATTTGTGTGTTAGTCTCTGAC 960  
Db 1228 CCAAAATCCACCTTCTCATTTGCTGACAGATTGGACAAAGAAATTTGTGTGTTAGTCTCTGAC 1287  
QY 961 AATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGACGCT 1020  
Db 1288 AATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGACGCT 1347  
QY 1021 TTCTGCTGCAGACAGTTGAGCTGGGCTCCTGGGTTGGGATGGTGACATTTGACAGTGCT 1080  
Db 1348 TTCTGCTGCAGACAGTTGAGCTGGGCTCCTGGGTTGGGATGGTGACATTTGACAGTGCT 1407  
QY 1081 GCCCATGTACAAAGTGAATCTATACAGATAAACAAGTGGCAGTGACAGGGGACACACTCGCC 1140  
Db 1408 GCCCATGTACAAAGTGAATCTATACAGATAAACAAGTGGCAGTGACAGGGGACACACTCGCC 1467  
QY 1141 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCTCCATCTGACAGGGGCTTCGATCGGCA 1200  
Db 1468 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCTCCATCTGACAGGGGCTTCGATCGGCA 1527  
QY 1201 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGAGCGAT 1260  
Db 1528 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGAGCGAT 1587  
QY 1261 GGGGAAGACAACTATATAAGTGGTCTTTAACAGGCTCAAAACAAAGTGGTGGCATCATC 1320  
Db 1588 GGGGAAGACAACTATATAAGTGGTCTTTAACAGGCTCAAAACAAAGTGGTGGCATCATC 1647  
QY 1321 CACACAGTGGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGAGTGTCCAAAATGACA 1380  
Db 1648 CACACAGTGGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGAGTGTCCAAAATGACA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACTAGGCTCATTTGATGCTTTT 1440  
Db 1708 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACTAGGCTCATTTGATGCTTTT 1767  
QY 1441 GGGGGCCCTTTTATCAGGAAATGAGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500  
Db 1768 GGGGGCCCTTTTATCAGGAAATGAGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
QY 1501 GGATTAACCCCTCCAGACAGCCAGTGGATGAATGSCACAGTGAATGCTGGACAGCACCGTG 1560  
Db 1828 GGATTAACCCCTCCAGACAGCCAGTGGATGAATGSCACAGTGAATGCTGGACAGCACCGTG 1887  
QY 1561 GGAAAGGACACTTTGTTTCTTATCACCTGGCAACAGCGAGCTCCCAAAATCCTTCTCTGG 1620  
Db 1888 GGAAAGGACACTTTGTTTCTTATCACCTGGCAACAGCGAGCTCCCAAAATCCTTCTCTGG 1947  
QY 1621 GATCCAGTGAACAGAGAGGAGTGGCTTTGTAGTGGACAAAAACACCAAAATGGCCTAC 1680  
Db 1948 GATCCAGTGAACAGAGAGGAGTGGCTTTGTAGTGGACAAAAACACCAAAATGGCCTAC 2007  
QY 1681 CTCCAAATCCCAGGCAATGCTAAGGTTGGCACTTTGGAAATACAGTGTGCAAGCAAGTCA 1740  
Db 2008 CTCCAAATCCCAGGCAATGCTAAGGTTGGCACTTTGGAAATACAGTGTGCAAGCAAGTCA 2067

1741 CAAACCTTGACCTGACTGCTACGTCCTGGTCCAAATGCTACCTGCTCAATTAACA 1800  
1742 CAAACCTTGACCTGACTGCTACGTCCTGGTCCAAATGCTACCTGCTCAATTAACA 2127  
1801 GTGACTTCCAAACGAAACGAGACACAGCAATTTCCCGAGCCCTGCTGATGATGA 1860  
2128 GTGACTTCCAAACGAAACGAGACACAGCAATTTCCCGAGCCCTGCTGATGATGA 2187  
1861 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATGAATCA 1920  
2188 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATGAATCA 2247  
1921 GTGAATGGAAAAACAGTACTCTTGGAACCTACTGGATAATGGAGCAGGTGCTGATCT 1980  
2248 GTGAATGGAAAAACAGTACTCTTGGAACCTACTGGATAATGGAGCAGGTGCTGATCT 2307  
1981 AAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATGACAGCAATGGTAGATACAGT 2040  
2308 AAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATGACAGCAATGGTAGATACAGT 2367  
2041 GTAAAGTGGGCTCTGGAGAGGATTAACCGAGCCAGACGAGAGTGATACCCAGCAG 2100  
2368 GTAAAGTGGGCTCTGGAGAGGATTAACCGAGCCAGACGAGAGTGATACCCAGCAG 2427  
2101 AGTGGGACACTGTACATACCTGGTGAATGAGATGATGAATGAATGAATGAATGAATGAAT 2160  
2428 AGTGGGACACTGTACATACCTGGTGAATGAGATGATGAATGAATGAATGAATGAATGAAT 2487  
2161 AGACCTGAAATTAATAGGATGATTTCAACAGCAAGAGTGCTTTTTCAGCAGAAATCC 2220  
2488 AGACCTGAAATTAATAGGATGATTTCAACAGCAAGAGTGCTTTTTCAGCAGAAATCC 2547  
2221 TCGGAGGCTCATTTTGGTCTCTGATGTCCTCAATGCTCCATACCTGATCTCTTCCCA 2280  
2548 TCGGAGGCTCATTTTGGTCTCTGATGTCCTCAATGCTCCATACCTGATCTCTTCCCA 2607  
2281 CCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGGCGAGTCTCAATTAATCTGACT 2340  
2608 CCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGGCGAGTCTCAATTAATCTGACT 2667  
2341 TGGACAGCTCTGGGATGATTTATGACCATGGACAGCTCAAGTATATCATTCGAATA 2400  
2668 TGGACAGCTCTGGGATGATTTATGACCATGGACAGCTCAAGTATATCATTCGAATA 2727  
2401 AGTACAAGTATCTTGTATCTCAGACCAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
2728 AGTACAAGTATCTTGTATCTCAGACCAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2787  
2461 GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTATTCCTCCACAGACTCCGCCA 2520  
2788 GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTATTCCTCCACAGACTCCGCCA 2847  
2521 ACTTTTGAATGGACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTTCGATCTG 2580  
2848 ACTTTTGAATGGACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTTCGATCTG 2907  
2581 AAATCAGAATATCCACATTCGACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA 2640  
2908 AAATCAGAATATCCACATTCGACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA 2967  
2641 GAGACACCTGATGATAAGAGCTGCTGCTCTGCTCAATTAATTCATATCAACAGCACC 2700  
2968 GAGACACCTGATGATAAGAGCTGCTGCTCTGCTCAATTAATTCATATCAACAGCACC 3027  
2701 ATTCTGGCATTCACATTTTAAATAATATGGAAGTGGATAGGAACTGAGCTGTCA 2760  
3028 ATTCTGGCATTCACATTTTAAATAATATGGAAGTGGATAGGAACTGAGCTGTCA 3087  
2761 ATAGCCTAGGCTGAAATTTTGTGATTAATAATAATAATCATTCCTT 2812  
3088 ATAGCCTAGGCTGAAATTTTGTGATTAATAATAATAATCATTCCTT 3139

RESULT 15  
US-10-393-567-12  
; Sequence 12, Application US/10393567  
; Publication NO. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-12

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAAGAGTTCTGTGTTCACTTGAAT 60  
Db 328 GGAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAAGAGTTCTGTGTTCACTTGAAT 387  
QY 61 CTTACACCTTACAGAGGGCCCTGAGTAATCACTCACTCAGCTGAAACAACAATGGCTAT 120  
Db 388 CTTACACCTTACAGAGGGCCCTGAGTAATCACTCACTCAGCTGAAACAACAATGGCTAT 447  
QY 121 GAAGGCAATTCGTTGCAATCGACCCCAATGTGCAAGATGAAACACCTCAATCAACAA 180  
Db 448 GAAGGCAATTCGTTGCAATCGACCCCAATGTGCAAGATGAAACACCTCAATCAACAA 507  
QY 181 ATAAGGACATGTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGGAAGGATTT 240  
Db 508 ATAAGGACATGTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGGAAGGATTT 567  
QY 241 TATTTCAAAATATGTTGCCATTTTGAATCTCTGAAACATGGAAGCAAAAGGCTGACTATG 300  
Db 568 TATTTCAAAATATGTTGCCATTTTGAATCTCTGAAACATGGAAGCAAAAGGCTGACTATG 627  
QY 301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 360  
Db 628 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 687  
QY 361 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAACTCTGTGAGAGAGGGTGAAGGATC 420  
Db 688 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAACTCTGTGAGAGAGGGTGAAGGATC 747  
QY 421 CACCTCACTCTGATTTTCAATGTCAGGAAAGGTAAGTCTGATGATGACCAACAGGTAGG 480  
Db 748 CACCTCACTCTGATTTTCAATGTCAGGAAAGGTAAGTCTGATGATGACCAACAGGTAGG 807  
QY 481 GCATTTGCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 540  
Db 808 GCATTTGCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 867  
QY 541 GAGAAATTTCACTTATCCAAATGGAAGATATCAAGCAGTAAGTGTTCAGCAGGTATTA 600  
Db 868 GAGAAATTTCACTTATCCAAATGGAAGATATCAAGCAGTAAGTGTTCAGCAGGTATTA 927  
QY 601 GGTACAAATGTAGTAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCAATTC 660  
Db 928 GGTACAAATGTAGTAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCAATTC 987  
QY 661 AATAAGTAAACAGGACTCTATCAAAAAGGATGTGAGTTTGTCTCAATCCCGCCAGAG 720  
Db 988 AATAAGTAAACAGGACTCTATCAAAAAGGATGTGAGTTTGTCTCAATCCCGCCAGAG 1047

QY	721	GAGAGGGCTTCTATAATGTTTGCACAACATGTTGATTCTATAGTTGGAATTCCTGTACAGAA	780
Db	1048	GAGAGGGCTTCTATAATGTTTGCACAACATGTTGATTCTATAGTTGGAATTCCTGTACAGAA	1107
QY	781	CAAAACCCACAACAAGAGCTTCCAACAAGACAAATCAAAAATGCAATTCGGAAGCACCA	840
Db	1108	CAAAACCCACAACAAGAGCTTCCAACAAGACAAATCAAAAATGCAATTCGGAAGCACCA	1167
QY	841	TGGGAAGTGATCCGTGATTCTCAGGACTTTAAGAAAACCACTTCCTATGACACACAGCCCA	900
Db	1168	TGGGAAGTGATCCGTGATTCTCAGGACTTTAAGAAAACCACTTCCTATGACACACAGCCCA	1227
QY	901	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAGAAATTTGTGTTTAGTCTCTTGAC	960
Db	1228	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAGAAATTTGTGTTTAGTCTCTTGAC	1287
QY	961	AAATCTGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTT	1020
Db	1288	AAATCTGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTT	1347
QY	1021	TTCTCTGCTGCAGACAGTTGAGCTGGGGTCCCTGGGTGGGATGGTGACATTTTCACAGTGCT	1080
Db	1348	TTCTCTGCTGCAGACAGTTGAGCTGGGGTCCCTGGGTGGGATGGTGACATTTTCACAGTGCT	1407
QY	1081	GCCCATCTACAAAGTGAACTCATACAGATAAACAGTGGCAGGTGACAGGACACACTCGCC	1140
Db	1408	GCCCATCTACAAAGTGAACTCATACAGATAAACAGTGGCAGGTGACAGGACACACTCGCC	1467
QY	1141	AAAAGATTACTCTGCAGCAGCTTCAGGAGGAGCTCCATCTCGAGCGGGCTTCGATCGGCA	1200
Db	1468	AAAAGATTACTCTGCAGCAGCTTCAGGAGGAGCTCCATCTCGAGCGGGCTTCGATCGGCA	1527
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGACGGAT	1260
Db	1528	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGACGGAT	1587
QY	1261	GGGGAGACAACTATTAAGTGGTGCTTTAAACAGAGTCAAAACAAAGTGGTGGCCATCATC	1320
Db	1588	GGGGAGACAACTATTAAGTGGTGCTTTAAACAGAGTCAAAACAAAGTGGTGGCCATCATC	1647
QY	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380
Db	1648	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1707
QY	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGCCCTCATTTGATGCTTTT	1440
Db	1708	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGCCCTCATTTGATGCTTTT	1767
QY	1441	GGGGCCCTTTTCATCAGAAATGAGCTGTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1500
Db	1768	GGGGCCCTTTTCATCAGAAATGAGCTGTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1827
QY	1501	GGATTAAACCTCCAGAACAGCAGTCGATGAATGGCACAGTGATCGTGGACAGCACCGTG	1560
Db	1828	GGATTAAACCTCCAGAACAGCAGTCGATGAATGGCACAGTGATCGTGGACAGCACCGTG	1887
QY	1561	GGAAAGGACATTTGTTTCTTATCACTGGACAAACAGCAGCTCCCAAAATCTTCTCTGG	1620
Db	1888	GGAAAGGACATTTGTTTCTTATCACTGGACAAACAGCAGCTCCCAAAATCTTCTCTGG	1947
QY	1621	GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACAAAACACCAAAATGGGCTAC	1680
Db	1948	GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACAAAACACCAAAATGGGCTAC	2007
QY	1681	CTCCAAATCCCAAGGCAATGCTAAGGTTGGCAGCTTGGAAATACAGTCTGCAGCAAGCTCA	1740
Db	2008	CTCCAAATCCCAAGGCAATGCTAAGGTTGGCAGCTTGGAAATACAGTCTGCAGCAAGCTCA	2067
QY	1741	CAAACTTTGACCCCTGACTGTACAGTCCCGTGGGTCCAATGCTACCTGCTCCAATTACA	1800
Db	2068	CAAACTTTGACCCCTGACTGTACAGTCCCGTGGGTCCAATGCTACCTGCTCCAATTACA	2127
QY	1801	GTGACTTCCAAAACAAACAGGACACCAAGAAATTCCTCCAGCCCTCTGGTAGTTTATGCA	1860

Db	2128	GTGACTTCCAAAAGAAACGAAACAGACACACAGCAAATCCCGACGCCCTCTGGTAGTTTATGCA	2187
Qy	1861	AATATTGCCCAAGAGGCCTCCCCAAATCTCAGGGCCAGTGTACAGCCCTGATTGAATCA	1920
Db	2188	AATATTGCCAAGGAGCCTCCCCAAATCTCAGGGCCAGTGTACAGCCCTGATTGAATCA	2247
Qy	1921	GTGAATGGAAAAACAGTTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATGCTACT	1980
Db	2248	GTGAATGGAAAAACAGTTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATGCTACT	2307
Qy	1981	AAGGATCAGCGTGCTACTCAAGGTATTTCACAACTTATGACACGAATCGTAGATACAGT	2040
Db	2308	AAGGATCAGCGTGCTACTCAAGGTATTTCACAACTTATGACACGAATCGTAGATACAGT	2367
Qy	2041	GTAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGACGAGAGTGATACCCAGCAG	2100
Db	2368	GTAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGACGAGAGTGATACCCAGCAG	2427
Qy	2101	AGTGGACACTGTACATACCTGGCTTGGAACTCAGAAATGAAATACAAATCGAATCCACA	2160
Db	2428	AGTGGACACTGTACATACCTGGCTTGGAACTCAGAAATGAAATACAAATCGAATCCACA	2487
Qy	2161	AGACCTGAAATTAATTAAGGATGATGTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCC	2220
Db	2488	AGACCTGAAATTAATTAAGGATGATGTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCC	2547
Qy	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTCTTCGCA	2280
Db	2548	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTCTTCGCA	2607
Qy	2281	CCTGGCCAAATCACCGACCTGAAAGCGCGAAATTCACGGGGCAGTCTCATTAATCTGACT	2340
Db	2608	CCTGGCCAAATCACCGACCTGAAAGCGCGAAATTCACGGGGCAGTCTCATTAATCTGACT	2667
Qy	2341	TGGACAGCTCTCGGGATGATTATGACCATGGAACAGCTCACAGTATATCATTTCGAATA	2400
Db	2668	TGGACAGCTCTCGGGATGATTATGACCATGGAACAGCTCACAGTATATCATTTCGAATA	2727
Qy	2401	AGTACAAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTACT	2460
Db	2728	AGTACAAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTACT	2787
Qy	2461	GCTCTCATCCCAAAGAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATT	2520
Db	2788	GCTCTCATCCCAAAGAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATT	2847
Qy	2521	ACTTTTGAAAATGGCACAGATCTTTTCATTGCTATTCAAGCTGTGTGATAGGTCGATCTG	2580
Db	2848	ACTTTTGAAAATGGCACAGATCTTTTCATTGCTATTCAAGCTGTGTGATAGGTCGATCTG	2907
Qy	2581	AAATCAGAAATATCCAAATTCGACAGGATCTTTGTTTATTCCTCCACAGACTCCGCCA	2640
Db	2908	AAATCAGAAATATCCAAATTCGACAGGATCTTTGTTTATTCCTCCACAGACTCCGCCA	2967
Qy	2641	GAGACACCTAGTCCTGATGAAAGCTGCTCCTGCTTAATTTTCAATATCATATCAACAGCAC	2700
Db	2968	GAGACACCTAGTCCTGATGAAAGCTGCTCCTGCTTAATTTTCAATATCATATCAACAGCAC	3027
Qy	2701	ATTCTGCGATTCACATTTTAAAAAATATGTGGAAGTGGATAGGAACTGCAGCTGTGCA	2760
Db	3028	ATTCTGCGATTCACATTTTAAAAAATATGTGGAAGTGGATAGGAACTGCAGCTGTGCA	3087
Qy	2761	ATAGCTTAGGCTGAATTTTGTGCAGATAAATAAAATAAATAATCATTCATCCTT	2812
Db	3088	ATAGCTTAGGCTGAATTTTGTGCAGATAAATAAAATAAATAATCATTCATCCTT	3139

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Job time : 888.864 secs

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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 09:47:01 ; Search time 93.6125 Seconds  
(without alignments)  
12778.822 Million cell updates/sec

Title: US-09-049-696-19  
Perfect score: 1683  
Sequence: 1 AACAAAGTGTGCCATCATC.....AAATGCTAAACAACCTGGGTA 1683

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*

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6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1676.6	99.6	3007	3	US-09-193-562D-27
2	1676.6	99.6	3007	4	US-10-055-412B-27
3	1512	89.8	1512	4	US-09-016-434-850
4	1467.4	87.2	2745	4	US-09-623-624-5
5	1467.4	87.2	2745	4	US-10-270-595-5
6	942.6	56.0	2931	4	US-09-623-624-1
7	942.6	56.0	2931	4	US-10-270-595-1
8	790.8	47.0	878	1	US-08-463-667-8
9	790.8	47.0	878	3	US-09-224-110-8
10	790.8	47.0	878	5	PCT-US95-07289-8
11	673.8	40.0	3043	3	US-09-049-698-16
12	673.8	40.0	3181	3	US-09-049-698-18
13	441.4	26.2	1081	4	US-09-016-434-928
14	441.4	26.2	1399	3	US-09-043-698-17
15	414.4	24.6	3317	3	US-09-193-562D-1
16	414.4	24.6	3317	4	US-10-055-412B-1
17	398.8	23.7	3022	3	US-09-193-562D-33
18	398.8	23.7	3022	4	US-10-055-412B-33
19	368.2	21.9	3418	3	US-09-193-562D-29
20	368.2	21.9	3418	4	US-10-055-412B-29
21	304	18.1	2784	4	US-09-643-597-168
22	304	18.1	2784	4	US-09-480-884A-168
23	304	18.1	2784	4	US-09-542-615A-168
24	304	18.1	2784	4	US-09-606-421B-168
25	304	18.1	2784	4	US-09-466-396A-168
26	304	18.1	2784	4	US-09-476-496A-168
27	304	18.1	2784	4	US-09-630-940B-168

28	301.6	17.9	2773	4	US-09-643-597-358	Sequence 358, App
29	301.6	17.9	2773	4	US-09-630-940B-358	Sequence 358, App
30	301.6	17.9	3156	4	US-09-919-172-86	Sequence 86, Appli
31	301.6	17.9	3190	4	US-09-623-624-3	Sequence 3, Appli
32	301.6	17.9	3190	4	US-10-270-595-3	Sequence 3, Appli
33	301.6	17.9	3951	4	US-09-643-597-160	Sequence 160, App
34	301.6	17.9	3951	4	US-09-480-884A-160	Sequence 160, App
35	301.6	17.9	3951	4	US-09-542-615A-160	Sequence 160, App
36	301.6	17.9	3951	4	US-09-606-421B-160	Sequence 160, App
37	301.6	17.9	3951	4	US-09-221-107-160	Sequence 160, App
38	301.6	17.9	3951	4	US-09-466-396A-160	Sequence 160, App
39	301.6	17.9	3951	4	US-09-476-496A-160	Sequence 160, App
40	301.6	17.9	3951	4	US-09-630-940B-160	Sequence 160, App
41	301.6	17.9	8031	4	US-09-643-597-254	Sequence 254, App
42	301.6	17.9	8031	4	US-09-480-884A-254	Sequence 254, App
43	301.6	17.9	8031	4	US-09-542-615A-254	Sequence 254, App
44	301.6	17.9	8031	4	US-09-606-421B-254	Sequence 254, App
45	301.6	17.9	8031	4	US-09-476-496A-254	Sequence 254, App

## ALIGNMENTS

## RESULT 1

US-09-193-562D-27

; Sequence 27, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match	99.6%;	Score 1676.6;	DB 3;	Length 3007;
Best Local Similarity	99.8%;	Pred. No. 0;		
Matches 1679;	Conservative	0;	Mismatches 4;	Indels 0; Gaps 0;
Qy	1	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60	
Db	1323	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	1382	
Qy	61	AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA	120	
Db	1383	AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA	1442	
Qy	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCTCAGCCCT	180	
Db	1443	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCTCAGCCCT	1502	
Qy	181	CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCCAGTGAATGAATGGACAG	240	
Db	1503	CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCCAGTGAATGAATGGACAG	1562	
Qy	241	TGATCGTGGACAGCAGCCGTGGAAAGGACACTTTGTTTCTTATCCTTGACCAACGAGC	300	
Db	1563	TGATCGTGGACAGCAGCCGTGGAAAGGACACTTTGTTTCTTATCCTTGACCAACGAGC	1622	
Qy	301	CTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGCAAGGTTGTTTGTAGTGACA	360	
Db	1623	CTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGCAAGGTTGTTTGTAGTGACA	1682	
Qy	361	AAACACCAAAATGGCCCTACTCTCAATCCAGCATGTCTAAGTTGGCACTTGGAAAT	420	

Db	1683	AAAAACACAAATGGCCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT	1742
Qy	421	ACAGTCTGCAAGCAAGCTCACAAACCTTTGACCCCTGACTGTCACGTCCCGTGGTCCAATG	480
Db	1743	ACAGTCTGCAAGCAAGCTCACAAACCTTTGACCCCTGACTGTCACGTCCCGTGGTCCAATG	1802
Qy	481	CTACCCCTGCCTCCAAATTCAGTGACTTCCAAACGAAACAGACACACGCAAAATCCCCA	540
Db	1803	CTACCCCTGCCTCCAAATTCAGTGACTTCCAAACGAAACAGACACACGCAAAATCCCCA	1862
Qy	541	GCCTCTGCTGAGTTATGCAATATTTGCGCAAGGAGCCTCCCAATTTCTCAGGGCCAGTG	600
Db	1863	GCCTCTGCTGAGTTATGCAATATTTGCGCAAGGAGCCTCCCAATTTCTCAGGGCCAGTG	1922
Qy	601	TCACAGCCCTGATTTGAATCAGTGAATGGAAACACAGTTACCTTGGAACTACTGGTAATG	660
Db	1923	TCACAGCCCTGATTTGAATCAGTGAATGGAAACACAGTTACCTTGGAACTACTGGTAATG	1982
Qy	661	GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATG	720
Db	1983	GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATG	2042
Qy	721	ACACGAATGTAGATACAGTGAATGAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACAG	780
Db	2043	ACACGAATGTAGATACAGTGAATGAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACAG	2102
Qy	781	GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGATGATG	840
Db	2103	GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGATGATG	2162
Qy	841	AAATACAAATGGATCCACGAGCCTGAAATTAATAGGATGATTTCAACACAAAGCAAG	900
Db	2163	AAATACAAATGGATCCACGAGCCTGAAATTAATAGGATGATTTCAACACAAAGCAAG	2222
Qy	901	TGTTGTTTCAGCAACATCTCCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCCAAATGCTC	960
Db	2223	TGTTGTTTCAGCAACATCTCCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCCAAATGCTC	2282
Qy	961	CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGGAAGGGGGAATTCACGGGG	1020
Db	2283	CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGGAAGGGGGAATTCACGGGG	2342
Qy	1021	GCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTAATGACCATGGAACAGCTC	1080
Db	2343	GCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTAATGACCATGGAACAGCTC	2402
Qy	1081	ACAAATATATCATTCGAATAAGTACAAAGTATTTCTGTATCTCAGAGACAAGTTCAATGAAT	1140
Db	2403	ACAAATATATCATTCGAATAAGTACAAAGTATTTCTGTATCTCAGAGACAAGTTCAATGAAT	2462
Qy	1141	CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT	1200
Db	2463	CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT	2522
Qy	1201	TGTTTAAACAGAAACATTTACTTTTGAATATGACAGATCTTTTTCATTCCTATTTCAGG	1260
Db	2523	TGTTTAAACAGAAACATTTACTTTTGAATATGACAGATCTTTTTCATTCCTATTTCAGG	2582
Qy	1261	CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAACTTTGAAATTAATGTGGAGTGA	1320
Db	2583	CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAACTTTGAAATTAATGTGGAGTGA	2642
Qy	1321	TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTGTATGAAACGCTCTCTCTGTCCTA	1380
Db	2643	TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTGTATGAAACGCTCTCTCTGTCCTA	2702
Qy	1381	ATATTTCATCAACAGCACCATTCTCTGGCATTTCACATTTTAAATTAATGTGGAGTGA	1440
Db	2703	ATATTTCATCAACAGCACCATTCTCTGGCATTTCACATTTTAAATTAATGTGGAGTGA	2762
Qy	1441	TAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAAATTTTGTGCAGATAAATAAATAA	1500
Db	2763	TAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAAATTTTGTGCAGATAAATAAATAA	2822

Query Match 99.6%; Score 1676.6; DB 4; Length 3007;

Best Local Similarity 99.8%; Pred. No. 0;

Matches 1679; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	AACAAAGTGTGTGCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60
Db	1323	AACAAAGTGTGTGCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	1382
Qy	61	AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCCAGAAC	120
Db	1383	AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCCAGAAC	1442
Qy	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCT	180
Db	1443	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCT	1502
Qy	181	CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGAATGATGGACAG	240
Db	1503	CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGAATGATGGACAG	1562
Qy	241	TGATCGTGGACAGACCGTGGGAAAGACACTTTTGTCTTATCACCTGGACACGACG	300
Db	1563	TGATCGTGGACAGACCGTGGGAAAGACACTTTTGTCTTATCACCTGGACACGACG	1622
Qy	301	CTCCCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAAAGAGTGGCTTTGTAGTGGACA	360
Db	1623	CTCCCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAAAGAGTGGCTTTGTAGTGGACA	1682
Qy	361	AAAAACACAAATGGCCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT	420
Db	1683	AAAAACACAAATGGCCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT	1742
Qy	421	ACAGTCTGCAAGCAAGCTCACAAACCTTTGACCCCTGACTGTCAAGTTCGCACTTGGAAAT	480

RESULT 2  
US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Patent No. 692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27



Db 1743 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGTACGTCCTCGTGCGTCAATG 1802  
QY CTACCCCTGCTCCCAATTACAGTGACTTCCAAAACGAAACAGACACACAGCAAAATCCCA 540  
Db 1803 CTACCCCTGCTCCCAATTACAGTGACTTCCAAAACGAAACAGACACACAGCAAAATCCCA 1862  
QY GCGCTCTGCTGATTTATGCAAAATATTCGCAAGAGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Db 1863 GCGCTCTGCTGATTTATGCAAAATATTCGCAAGAGAGCTCCCAATTTCTCAGGGCCAGTG 1922  
QY TCACAGCCCTGATTTGAAATCAGTGAATGAAAGAAACAGTTTACCTTGGAATCTTGGATAATG 660  
Db 1923 TCACAGCCCTGATTTGAAATCAGTGAATGAAAGAAACAGTTTACCTTGGAATCTTGGATAATG 1982  
QY GAGCAGTGTCTGATGCTACTTAAGAGATGACGTGCTACTCAAGGTATTTTCACTCACTTATG 720  
Db 1983 GAGCAGTGTCTGATGCTACTTAAGAGATGACGTGCTACTCAAGGTATTTTCACTCACTTATG 2042  
QY ACACGAATGGTAGATACAGTGTAAAGTTCGGGGCTCTGGAGAGAGTTTAAACGACCCAGAC 780  
Db 2043 ACACGAATGGTAGATACAGTGTAAAGTTCGGGGCTCTGGAGAGAGTTTAAACGACCCAGAC 2102  
QY GGAGAGTATACCCAGCAGAGTGGAGCACTGTATACATCCTGGCTGGATTTAGAAATGATG 840  
Db 2103 GGAGAGTATACCCAGCAGAGTGGAGCACTGTATACATCCTGGCTGGATTTAGAAATGATG 2162  
QY AAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGAGATGATTTCAACACAGCAAG 900  
Db 2163 AAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGAGATGATTTCAACACAGCAAG 2222  
QY TGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC 960  
Db 2223 TGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC 2282  
QY CCATACCTGATCTCTCCACCTGGCCAAATCCACGACCTGAAAGCGGAAATTCACGGGG 1020  
Db 2283 CCATACCTGATCTCTCCACCTGGCCAAATCCACGACCTGAAAGCGGAAATTCACGGGG 2342  
QY GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGAGTATTTGACCATGGAACAGCTC 1080  
Db 2343 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGAGTATTTGACCATGGAACAGCTC 2402  
QY ACAAGTATATCATTCGAATGAATGACAGTATTTGATCTCAGACACAGTTCATGAAT 1140  
Db 2403 ACAAGTATATCATTCGAATGAATGACAGTATTTGATCTCAGACACAGTTCATGAAT 2462  
QY CTCTTCAAGTATATCTGCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTT 1200  
Db 2463 CTCTTCAAGTATATCTGCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTT 2522  
QY TGTGTTAAACAGAAACATTTCTTTGAAATGGACAGATCTTTTCAATGCTATTCAGG 1260  
Db 2523 TGTGTTAAACAGAAACATTTCTTTGAAATGGACAGATCTTTTCAATGCTATTCAGG 2582  
QY CTGTTGATAAGTTCGATCTGAAATCAGAAATATCAAAATGCGACAGATCTTTTCAATGCTATTCAGG 1320  
Db 2583 CTGTTGATAAGTTCGATCTGAAATCAGAAATATCAAAATGCGACAGATCTTTTCAATGCTATTCAGG 2642  
QY TTCTTCCACAGACTCGGCGACAGACACCTGATGCTGATGAAACGCTGCTGCTTCTCTTA 1380  
Db 2643 TTCTTCCACAGACTCGGCGACAGACACCTGATGCTGATGAAACGCTGCTGCTTCTCTTA 2702  
QY ATATTCATATCAACAGCACCATTCTGCGCATTCACATTTTAAATATATGCGAAGTGA 1440  
Db 2703 ATATTCATATCAACAGCACCATTCTGCGCATTCACATTTTAAATATATGCGAAGTGA 2762  
QY TAGGAGAACTCGAGCTGCAATAGCTAGGGCTGAAATTTTGTACAGATAAATAAATAA 1500  
Db 2763 TAGGAGAACTCGAGCTGCAATAGCTAGGGCTGAAATTTTGTACAGATAAATAAATAA 2822  
QY TCATTCATCTTTTGTGATATAAATTTTCTAAATGATTTTGTAGACTTCTCTGATG 1560

Db 2823 TCATTCATCTTTTGTGATATAAATTTTAAAAATGATTTTAAAAATCTCTGATG 2882  
QY GGGCGATATACATAATGATATAGTACATTTTATATCTAAATGATTTTCTCTGATG 1620  
Db 2883 GGGCGATATACATAATGATATAGTACATTTTATATCTAAATGATTTTCTCTGATG 2942  
QY ATACTAAATGATTTTATAGACTTCTCTAGGGGGCGATAAAAATGCTAAACAACTGG 1680  
Db 2943 ATACTAAATGATTTTATAGACTTCTCTAGGGGGCGATAAAAATGCTAAACAACTGG 3002  
QY 1681 GTA 1683  
Db 3003 GGA 3005

RESULT 3  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 8500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLN00T01  
; CLONE: 608819  
US-09-016-434-850

Query Match 89.8%; Score 1512; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGTGCCATCATCCACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGACTAG 60  
Db 1 AACAAAGTGTGCCATCATCCACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGACTAG 60  
QY 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC 120

Db 61 AGGAGCTCTCCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGACA 120  
Qy 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Db 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Qy 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGGAATGACACAG 240  
Db 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGGAATGGAACAG 240  
Qy 241 TGATGTGACAGCAGCCGTTGGGAAAGGACACTTTGTTCTTATCAGCTGGACAAAGCAGC 300  
Db 241 TGATGTGACAGCAGCCGTTGGGAAAGGACACTTTGTTCTTATCAGCTGGACAAAGCAGC 300  
Qy 301 CTCCTCCAAATCTCTCTCGGATCCAGTGGACAGCAAGCAAGTGGCTTTTGTAGTGGACA 360  
Db 301 CTCCTCCAAATCTCTCTCGGATCCAGTGGACAGCAAGCAAGTGGCTTTTGTAGTGGACA 360  
Qy 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAGTGGACCTTGGAAAT 420  
Db 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAGTGGACCTTGGAAAT 420  
Qy 421 ACAGTCTGCAAGCAAGCTCACAACTTGACCTGACTGTCAGTCCCGTGGCTCCAAATG 480  
Db 421 ACAGTCTGCAAGCAAGCTCACAACTTGACCTGACTGTCAGTCCCGTGGCTCCAAATG 480  
Qy 481 CTACCTGCTCCAAATTTACAGTACCTTCCAAACGCAAGCAAGCAAGTTCCTCCCA 540  
Db 481 CTACCTGCTCCAAATTTACAGTACCTTCCAAACGCAAGCAAGCAAGTTCCTCCCA 540  
Qy 541 GCCTCTGGTGTATGCAAAATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Db 541 GCCTCTGGTGTATGCAAAATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Qy 601 TCAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660  
Db 601 TCAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660  
Qy 661 GAGCAGCTGCTGATGCTACTAAGATGACGCTGTCTACTCAAGTATTTTCAAACTTATG 720  
Db 661 GAGCAGCTGCTGATGCTACTAAGATGACGCTGTCTACTCAAGTATTTTCAAACTTATG 720  
Qy 721 ACAGAAATGTPAGATACAGTGTAAAGTGGGGCTCTGGAGGAGTAAACGACGAC 780  
Db 721 ACAGAAATGTPAGATACAGTGTAAAGTGGGGCTCTGGAGGAGTAAACGACGAC 780  
Qy 781 GGAGAGTATACCCAGCAGAGTGGACCTGTATACCTGGCTGGATGAGATGATGATGATG 840  
Db 781 GGAGAGTATACCCAGCAGAGTGGACCTGTATACCTGGCTGGATGAGATGATGATGATG 840  
Qy 841 AAATACATGGAATCCCAAGACCTGAAATTAATTAAGATGATGATGATGATGATGATG 900  
Db 841 AAATACATGGAATCCCAAGACCTGAAATTAATTAAGATGATGATGATGATGATGATG 900  
Qy 901 TGTTTTCAGCAGAAATCTCTGGAGGCTCATTTTGGCTTCTGATGCTCCCAATGCTC 960  
Db 901 TGTTTTCAGCAGAAATCTCTGGAGGCTCATTTTGGCTTCTGATGCTCCCAATGCTC 960  
Qy 961 CCATACCTGATCTCTCCCTGCTCCCAATCAGCAGCTGAGGCGGAAATTCACGGGG 1020  
Db 961 CCATACCTGATCTCTCCCTGCTCCCAATCAGCAGCTGAGGCGGAAATTCACGGGG 1020  
Qy 1021 GCAGTCTCATTAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1080  
Db 1021 GCAGTCTCATTAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1080  
Qy 1081 ACAAGTATATCATTCGAATTAAGTACAGTATTTTGTATCTCAGACCAAGTTCATGAT 1140  
Db 1081 ACAAGTATATCATTCGAATTAAGTACAGTATTTTGTATCTCAGACCAAGTTCATGAT 1140  
Qy 1141 CTCCTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAGTCTTTT 1200  
Db 1141 CTCCTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAGTCTTTT 1200

Qy 1201 TGTTTAAACCAGAAAACATTACTTTTGAATAATGGCAGATCTTTTTCATTGCTATTCAGG 1260  
Db 1201 TGTTTAAACCAGAAAACATTACTTTTGAATAATGGCAGATCTTTTTCATTGCTATTCAGG 1260  
Qy 1261 CTGTTGATAAGGTGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG 1320  
Db 1261 CTGTTGATAAGGTGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG 1320  
Qy 1321 TTCTCTCCAGAGCTCCGCGCAGAGACACCTAGTCTGATGAAACGCTCTGCTCTCTTGTCTTA 1380  
Db 1321 TTCTCTCCAGAGCTCCGCGCAGAGACACCTAGTCTGATGAAACGCTCTGCTCTCTTGTCTTA 1380  
Qy 1381 ATATTCAATCAACAGCACCATTCTCTGCAATTCACATTTTAAATTTATGGAAGTGA 1440  
Db 1381 ATATTCAATCAACAGCACCATTCTCTGCAATTCACATTTTAAATTTATGGAAGTGA 1440  
Qy 1441 TAGGAGAACTGAGCTGTCAATAGCTAGGCTGAAATTTTGTGCAATAAATAAATAA 1500  
Db 1441 TAGGAGAACTGAGCTGTCAATAGCTAGGCTGAAATTTTGTGCAATAAATAAATAA 1500  
Qy 1501 TCATTTCATCCTT 1512  
Db 1501 TCATTTCATCCTT 1512

RESULT 4

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-09-623-624-5

Query Match 87.2%; Score 1467.4; DB 4; Length 2745;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1468; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1277 AACAAAGTGGTCCCATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1336

QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 120  
Db 1337 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 1396

QY 121 ATGSCCTCATGTATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Db 1397 ATGSCCTCATGTATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT 1456

QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1457 CCATCCAGCTTGAGAGTAAGGATTAACCTTCCAGAACAGCCAGTGGATGAATGGCACAG 1516

QY 241 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTTGTCTTATCACCTGGACACCGCAGC 300  
Db 1517 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTTGTCTTATCACCTGGACACCGCAGC 1576

QY 301 CTCCCAATCTCTCTGCGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGACA 360  
Db 1577 CTCCCAATCTCTCTGCGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGACA 1636

QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 420  
Db 1637 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 1696

QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACGTCCCGTCCGTCCAATG 480  
Db 1697 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACGTCCCGTCCGTCCAATG 1756

QY 481 CTACCTGCTCCAAATACAGTGAATTCGCAAGCAAGGACACAGCAAAATCCCA 540  
Db 1757 CTACCTGCTCCAAATACAGTGAATTCGCAAGCAAGGACACAGCAAAATCCCA 1816

QY 541 GCCTCTGCTAGTTATGCAATATTCGCAAGGACCTCCCAATCTCAGGCGCAGTG 600  
Db 1817 GCCTCTGCTAGTTATGCAATATTCGCAAGGACCTCCCAATCTCAGGCGCAGTG 1876

QY 601 TCACAGCCTGATGTAATCAGTGAATGAAACAGTTACTTGGAACTACTGGAATG 660  
Db 1877 TCACAGCCTGATGTAATCAGTGAATGAAACAGTTACTTGGAACTACTGGAATG 1936

QY 661 GAGCAGGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATG 720  
Db 1937 GAGCAGGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATG 1996

QY 721 ACACGAATGGTATACAGTGAATGTCGGGCTCTGGAGAGTTAAGCAGCAGAC 780  
Db 1997 ACACGAATGGTATACAGTGAATGTCGGGCTCTGGAGAGTTAAGCAGCAGAC 2056

QY 781 GGAGAGTGATACCCAGCAGTGGAGCACTGTACATACCTGCTGGATGAGATGATG 840  
Db 2057 GGAGAGTGATACCCAGCAGTGGAGCACTGTACATACCTGCTGGATGAGATGATG 2116

QY 841 AAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGTATGTTCAACACAGCAAG 900  
Db 2117 AAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGTATGTTCAACACAGCAAG 2176

QY 901 TGTGTTTCAGCAGACATCTCTGGAGGCTATTTGTGGCTTCTGATGCCAAATGCTC 960  
Db 2177 TGTGTTTCAGCAGACATCTCTGGAGGCTATTTGTGGCTTCTGATGCCAAATGCTC 2236

QY 961 CCATACCTGATCTCTTCCACTGCGCAATCACCGACTGAGCGGAAATTCAGGGG 1020  
Db 2237 CCATACCTGATCTCTTCCACTGCGCAATCACCGACTGAGCGGAAATTCAGGGG 2296

QY 1021 CGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGGATGATTAATGACCATGGAACAGCTC 1080

## RESULT 5

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Patent No. 6716603

## GENERAL INFORMATION:

; APPLICANT: Megalin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS

Db 2297 GCAGTCTCAATTAATCTGACTTGGACAGCTCTGGGATGATTAATGACCATGGAACAGCTC 2356  
QY 1081 ACAAGTATATCATTCGAATAAGTACAAAGTATTCCTGATCTCAGAGACAAGTTCAATGAAT 1140  
Db 2357 ACAAGTATATCATTCGAATAAGTACAAAGTATTCCTGATCTCAGAGACAAGTTCAATGAAT 2416  
QY 1141 CTCTTCAAGTGAATATCTACTGCTCTCATCCCAAAGGAAGCAACTCTGAGGAAGTCTTTT 1200  
Db 2417 CTCTTCAAGTGAATATCTACTGCTCTCATCCCAAAGGAAGCAACTCTGAGGAAGTCTTTT 2476  
QY 1201 TGTTTAAACACAGAAAACATTAATCTTGAATGGCAGACATCTTTCAATCTGATTCAGG 1260  
Db 2477 TGTTTAAACACAGAAAACATTAATCTTGAATGGCAGACATCTTTCAATCTGATTCAGG 2536  
QY 1261 CTCTTGAATAGGTGCTGATCTGAAATCAGAAATATCAACATTCACAGAGTATCTTTGTTTA 1320  
Db 2537 CTCTTGAATAGGTGCTGATCTGAAATCAGAAATATCAACATTCACAGAGTATCTTTGTTTA 2596  
QY 1321 TTCTCTCAGACACTCCGCCAGAGACACCTAGTCTCTGATGAAACGTCTGCTCTTGTCTTA 1380  
Db 2597 TTCTCTCAGACACTCCGCCAGAGACACCTAGTCTCTGATGAAACGTCTGCTCTTGTCTTA 2656  
QY 1381 ATATTCAATATCAACAGCACCATTCCTGGCATTCACATTTTAAAAATATGTGGAAGTGA 1440  
Db 2657 ATATTCAATATCAACAGCACCATTCCTGGCATTCACATTTTAAAAATATGTGGAAGTGA 2716  
QY 1441 TAGGAAACTGACAGCTGTCAATAGCCCTAG 1469  
Db 2717 TAGGAAACTGACAGCTGTCAATAGCCCTAG 2745

; LOCATION: (1)..(2742)									
US-10-270-595-5									
Query Match									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 1468; Conservative 0; Mismatches 1; Indels 0; Gaps 0;									
QY	1	ACAAAGTGGTGCATATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGACTAG	60						
DB	1277	AAACAAAGTGGTGCATATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGACTAG	1336						
QY	61	AGAGCTGTCGCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACA	120						
DB	1337	AGAGCTGTCGCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACA	1396						
QY	121	ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGTGTCTCTCAGCGCT	180						
DB	1397	ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGTGTCTCTCAGCGCT	1456						
QY	181	CCATCCAGCTTGAGAGTAAGGATTAACCCCTCAGAACAGCCAGTGGATGAATGGCACAG	240						
DB	1457	CCATCCAGCTTGAGAGTAAGGATTAACCCCTCAGAACAGCCAGTGGATGAATGGCACAG	1516						
QY	241	TGATCGTGGACACACCGTGGGAAAGACACTTTTCTTATCACCCTGGACCAACGACG	300						
DB	1517	TGATCGTGGACACACCGTGGGAAAGACACTTTTCTTATCACCCTGGACCAACGACG	1576						
QY	301	CTCCCCAAATCCCTTCTCTGGATGCCAGTGGGACAGAAAGAGTGGCTTTGTAGTGACA	360						
DB	1577	CTCCCCAAATCCCTTCTCTGGATGCCAGTGGGACAGAAAGAGTGGCTTTGTAGTGACA	1636						
QY	361	AAACACCAAAATGGCTTACCTCAATCCAGGCATTTGTAAGTTGGCAGCTTGGAAAT	420						
DB	1637	AAACACCAAAATGGCTTACCTCAATCCAGGCATTTGTAAGTTGGCAGCTTGGAAAT	1696						
QY	421	ACAGTCTGCAAGCAAGCTTCAACAACTTGACCTGACTGTCACTCCCGTGGCTCCCAATG	480						
DB	1697	ACAGTCTGCAAGCAAGCTTCAACAACTTGACCTGACTGTCACTCCCGTGGCTCCCAATG	1756						
QY	481	CTACCTCGCTCCCAATPACAGTGACTTCCAAACGAAACAGGACACAGCAAAATTCGCCA	540						
DB	1757	CTACCTCGCTCCCAATPACAGTGACTTCCAAACGAAACAGGACACAGCAAAATTCGCCA	1816						
QY	541	GCCCTCTGGTAGTTTATGAAATTTGCGCAAGAGCCTCCCAATTTCTCAGGCGCAGTG	600						
DB	1817	GCCCTCTGGTAGTTTATGAAATTTGCGCAAGAGCCTCCCAATTTCTCAGGCGCAGTG	1876						
QY	601	TCACAGCCCTGATTGAATCAGTGAATGGAACAAACAGTTACTTGGAACTACTGGATAATG	660						
DB	1877	TCACAGCCCTGATTGAATCAGTGAATGGAACAAACAGTTACTTGGAACTACTGGATAATG	1936						
QY	661	GAGCAGTGTGCTGCTACTAAGGATGACCGTGTCTACTCAAGGTATTTTCAAACTTATG	720						
DB	1937	GAGCAGTGTGCTGCTACTAAGGATGACCGTGTCTACTCAAGGTATTTTCAAACTTATG	1996						
QY	721	ACAGAAATGTTAGTACAGTGAATGAGGCTCTGGAGAGGAGTTAAACGACCCAGAC	780						
DB	1997	ACAGAAATGTTAGTACAGTGAATGAGGCTCTGGAGAGGAGTTAAACGACCCAGAC	2056						
QY	781	GGAGAGTATACCCAGCAGAGTGGACACTGTATACATACCTGGCTGGATTCAGAAATGATG	840						
DB	2057	GGAGAGTATACCCAGCAGAGTGGACACTGTATACATACCTGGCTGGATTCAGAAATGATG	2116						
QY	841	AAATACAAATGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG	900						
DB	2117	AAATACAAATGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG	2176						
QY	901	TGTGTTTTCAGCAGACATCTCCGGAGGCTCATTTGTGCTTCTGATCTCCCAATGCTC	960						
DB	2177	TGTGTTTTCAGCAGACATCTCCGGAGGCTCATTTGTGCTTCTGATCTCCCAATGCTC	2236						
QY	961	CCATACCTGATCTCTTCCCACTCCGCAATCACCAGCTGAAAGCGGAAATTCACGGGG	1020						

RESULT 6  
US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 56.0%; Score 942.6; DB 4; Length 2931;  
Best Local Similarity 76.9%; Pred. No. 4.4e-286;  
Matches 1212; Conservative 0; Mismatches 339; Indels 26; Gaps 4;

QY 1 AACAAAGTGGTGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
DB 1287 AGCAGAGCGGGCCATCATCCATACAGTGGCCCTGGGACCGGCTGCGCTAAAGAGCTTG 1346  
QY 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAACA 120  
DB 1347 AGCAGCTGTCCAAATGACAGAGGCTTCAGACATATCTCTCGATCAGGTTTCAAGACA 1406  
QY 121 ATGCCCTCAITGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGGCT 180  
DB 1407 ATGGTCTGTGTGCTTTTCGACAGACTCTCTCAGGAAATGGGCGATCGCTCAGCACT 1466  
QY 181 CCATCCAGCTTGAGATTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
DB 1467 CCATCCAGCTGGAGCAGGAGGAGTTAATCTCCAGATTAACCAATGATGAATGGCTCAG 1526  
QY 241 TGATCGTGGACAGCAGCGTGGGAAAGACACTTTTCTTATATCATCTGGACAAACGAGC 300  
DB 1527 TGATCGTGGACAGCTCGTGGGCAAGGACACTTTTCTTATCACCCTGGACAAACGATC 1586  
QY 301 CTCGCCAAATCTCTCTGGATCCAGTCCAGGCAATGCTAAGGTGGCAGCTTGGAAAT 420  
DB 1587 CTCCTACATATTATCTGGATCCAGCGGATGGAAACAAAATGTTTATATCTAGACA 1646  
QY 361 AAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCAGCTTGGAAAT 420  
DB 1647 CAACCACTAAGTGGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCAGCTTGGAAAT 1706  
QY 421 ACAGTCTGCAGCAAGCTCACAACCTTGACCTGTGCTGACCTCCCGTGGCTGCAATG 480  
DB 1707 ACAGCAATCAAGCGAGCTCAGACACTCTCACCTTGACTGTGACCTCCCGTGGCAGCAAGT 1766  
QY 481 CTACCTGCTCTCAATTTACAGTGACTTCCAAACGAAACAGACACAGCAAAATTTCCCA 540  
DB 1767 CTACCTGCTCTTATACAGTGACCCCGGTAGTGAATAAGAACACAGGGAATTTCCCA 1826  
QY 541 GCCCTCTGGTAGTTTATGCAATATTTCGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTG 600  
DB 1827 GCCCTGTAAACAGTGTATGCAAGCAITTCGCAAGGAGCCCTCGCTATTCTCAGGCGCAGG 1886  
QY 601 TCACAGCCTGTGTAATGATCAGTGAATGGAACAGTACCTTGGAACTACTGGATAATG 660  
DB 1887 TCACAGCCTGTGTAATGATCAGTGAATGGAACAGTACCTTGGAACTACTGGATAATG 1946  
QY 661 GAGCAGGTGCTGATGCTACTAAGGATGACGCTGCTCTCAGAGTATTTCACAACTTATG 720  
DB 1947 GAGCAGGTGCTGATGCTGCAACAGATGATGGTGTCTACTCAAGGTTTTTACAGCTTTG 2006  
QY 721 ACAGAAATGGTATGATGATGTAAGTGTAAAGTGGCGGCTCTGGAGAGCTTAAACGAGCCAGC 780  
DB 2007 ATGCAAAATGGTATGATGATGTAAGTGTAAAGTGGCGCTCTGGAGAGCTTAAACGAGCCAGC 2066  
QY 781 GGAGATGATACCCAGCAGAGTGAGCACTGTATACATCTGGCTGGATTCAGAAATGATG 840  
DB 2067 AGAGAGAGCAGCTCCGAGAACAGAGCAATGTATAGATGCTGGATGGAGTGGT 2126  
QY 841 AAATCAATGGAATCCACCAAGACCTGAAATTAATAGATGATGTTCAACACAGCAAG 900  
DB 2127 AAGTAAAGATGAACCCACAGCTCTCTGAACTA-----GTTATGTTTCAAGACAAAGCAGC 2180

QY 901 TGTGTTTCAGCAGAACATCTCTGGAGGCTCATTTGTGGCTTCTGATGTC---CAAATG 957  
DB 2181 TGTGTTTCAGCAGAACATCTCTGGAGGCTCATTTGTGGCTTCTGATGTC---CAAATG 957  
QY 958 CTCCCATACCTGATCTCTTCCACCTGCGCAAAATCACCAGCTGAAGGGGAAATTCAG 1017  
DB 2241 CTCCCATCTGAGCTCTTTCACCTGCTCAAAATCAGCTGAAGGCCAGCATCCAG 2300  
QY 1018 GGGCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGATGATTATGACCATGAAACAG 1077  
DB 2301 GGCAGAACCTGGTGAATCTGAGCTGGAGGCTCTCTGGGATGACTACGACCACGGGAGAG 2360  
QY 1078 CTCAAGATATCATTTCCGAATAAGTACAAGTATCTTTGATCTCAGACACAAGTTCAATG 1137  
DB 2361 CTTCCAACTCATCATCCGAATGAGCACCAAGTATCGTTGATCTCAGGACCACTTCAACA 2420  
QY 1138 AATCTCTTCAAGTGAATACTACTGCTCTCATCTCCCAAGAGGACCACTCTGAGGAAGTCT 1197  
DB 2421 CCTCACTCCAAAGTGAACACTACCGCTCTTATCCCAAGAGGCGCAGCTCTGAGGAAATCT 2480  
QY 1198 TTTGTTTAAACACAGAAACATTTACTTTTGAATAATGACAGATCTTTTCAATGCTATTC 1257  
DB 2481 TTGAGTTTGAATCTGGAGGCAACACTTTTGAATAATGACAGATATCTTCAATGCTATTC 2540  
QY 1258 AGGCTGTGATAGTCTGATCTGAAATCAGAAATATCCAACTGACAGATATCTTTGT 1317  
DB 2541 AGGCTGTGATAGTCTGATCTGAAATCAGAAATATCCAACTGACAGATATCTTTGT 2600  
QY 1318 TTATTTCTCCACAGACTCCCGCAGACACCTAGTCTCTGATGAAACGCTGTCCTTGTGTC 1377  
DB 2601 TCAATCCCGCTCAG-----GAGCGGCCCATTCGCAAGACTCAACTCCCGCTTGTGTC 2651  
QY 1378 CTAATATTTCATATCAACAGACACCAATTCCTGGCAATTCACATTTTAAATAATTTGGAAGT 1437  
DB 2652 CTGACATCAGCATCAACAGACCAATTCCTGGCAATTCACATTTTAAATAATTTGGAAGT 2711  
QY 1438 GGATAGAGAACTGCAAGTCTCAATAGCCTAGGCTGAAATTTTGTGCAATAATAAAT 1497  
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QY 1498 AAATCATTTCATCTTTTTCATATATAAATTTTCAATAAATTTTCAATAAATTTTCTGCT 1557  
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QY 1558 AGGGGCGGATATATAA 1574  
DB 2824 AGGGGCGGATATATAA 2840  
RESULT 7  
US-10-270-595-1  
; Sequence 1, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; PRIOR FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)...(2746)
; US-10-270-595-1
Query Match 56.0%; Score 942.6; DB 4; Length 2931;
Best Local Similarity 76.9%; Pred. No. 4.4e-286;
Matches 1212; Conservative 0; Mismatches 339; Indels 26; Gaps 4;
QY 1 AACAAAGTGTGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
Db 1287 AGCAGAGCGGGGCATCATCCATACAGTGGCCCTGGGACCGCTGCGCTTAAGAGCTTG 1346
QY 61 AGGAGCTGTCCAAAATCACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAA 120
Db 1347 AGCAGCTGTCCAAAATCACAGGAGGCTGCGACATATCTCTCGATCAGGTTTCAAGAA 1406
QY 121 ATGCGCTCAATGATGCTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCTCAGCGCT 180
Db 1407 ATGCTCTGTGATGCTTTGCGAGCACTCTCTCAGGAATGCGGCGATCGCTCAGCACT 1466
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCCAG 240
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Db 1767 CTACACTGCCCTCTATTACAGTGACCCCGGTAGTGAATTAAGAACACAGGGAAATTCGCCA 1826
QY 541 GCCCTCTGGTATTTATGCAATATTCGCCAGGAGCTCCCAATTTCTCAGGGCCAGTG 600
Db 1827 GCCCTGTAAAGTGTATGCAAGCAATTCGCCAGGAGCTCCGCTATTTCTCAGGGCCAGCG 1886
QY 601 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGAACCTACTGGATAATG 660
Db 1887 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGAACCTACTGGATAACG 1946
QY 661 GAGCAGGCTGCTGATGCTACTAGGATGACGGTGTCTACTCAGGTTATTCACAACTTATG 720
Db 1947 GAGCAGGCTGCCATGCCAACAAAGATGATGGTGTCTACTCAAGGTTTTTTACAGCTTTG 2006
QY 721 ACACGAATGTAGATACAGTGTAAAAGTGGGGCTCTCGGAGGAGTTAACGCGCAGAC 780

RESULT 8

US-08-469-667-8
; Sequence 8, Application US/08469667
; Patent No. 5733748
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; ADDRESSEE: Stewart & Olstein
; STREET: 6 Becker Farm Road

Db 2007 ATGCAATGTGTAGATACAGCGTTAAAAATATGGGCTCTGGAGAGTCACTTCAGACAGAC 2066
QY 781 GGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAAGATGATG 840
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QY 841 AAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGATGATGTTCAACAACAAGCAAG 900
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QY 958 CTCCCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAGGGGAAATTCACG 1017
Db 2241 CTCCCATCTGACCTCTTCCACCTGTCAATCACTGACCTGAAGGGCAGCATCCAAG 2300
QY 1018 GGGGAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTTATGACCATGGAACAG 1077
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QY 1198 TTTTGTTTAAACAGAAAAACATTTACTTTTGAATAATGGCACAGATCTTTTCACTTCCTATTC 1257
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Db 2541 AGGCTGTTGATAGTGCATCTGAAATCAGAAATCTCCAACTTGCACGAGTATCTTTGT 2600
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Db 2601 TCATCCCGCTCAG-----GAGCGGCCATTCGCCAGACTCAACTCCCCCTGTC 2651
QY 1378 CTAAATATTCATACACAGACCACTCTGGCATTCACATTTTAAATTTATGAGGAT 1437
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QY 1438 GGATAGAGAACTCAGCTGTCAATAGCTAGGCTGAAATTTTGTGATGATAAATAAAT 1497
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Db 2824 AGGGGGGATATAGTAA 2840



CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 878 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2..685  
US-08-469-667-8

Query Match  
Best Local Similarity 47.0%; Score 790.8; DB 1; Length 878;  
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGTCTACTCAAGGTATTTTACACCACTATGACACGAGTGGTAGATACAGTGTAAAGTGGG 751  
DB 1 TGTCTACTCAAGGTATTTTACACCACTATGACACGAGTGGTAGATACAGTGTAAAGTGGG 60  
QY 752 GGCTCTGGGAGAGTTAAACGCCAGCCAGAGAGTGATACCCAGCAGAGTGGAGCACT 811  
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QY 812 GTACATACCTGGTGGATGAGAAATGAAATACAAATGAAATGAAATGAAATGAAATGAAAT 871  
DB 121 GTACATACCTGGTGGATGAGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAAT 180  
QY 872 TAATAAGGATGATTTCAACCAAGCAAGTGTGTTTCAGCAGAAATCTCGGGAGGCTC 931  
DB 181 TAATAAGGATGATTTCAACCAAGCAAGTGTGTTTCAGCAGAAATCTCGGGAGGCTC 240  
QY 932 ATTTGGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAT 991  
DB 241 ATTTGGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAT 300  
QY 992 CACCACTGAGGCGGAAATTCAGGGGGAGTCTCAATATCTGACTTGACAGCTCC 1051  
DB 301 CACCACTGAGGCGGAAATTCAGGGGGAGTCTCAATATCTGACTTGACAGCTCC 360  
QY 1052 TGGGGATGATATGACCATGGAACAGCTCACAAGTATATCATTCGAATTAAGTACAGTAT 1111  
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QY 1112 TCTTGATCTCAGACAGCAAGTTCAAATGAATCTCTTCAAGTGAATFACTGCTCTCATCC 1171  
DB 421 TCTTGATCTCAGACAGCAAGTTCAAATGAATCTCTTCAAGTGAATFACTGCTCTCATCC 480  
QY 1172 AAAGGAGCAACTCTGAGAGTCTTTTGTGTTTAAACAGAAACATTTTGAATA 1231  
DB 481 AAAGGAGCAACTCTGAGAGTCTTTTGTGTTTAAACAGAAACATTTTGAATA 540  
QY 1232 TGGCAGAGATCTTTTCAATGCTATTTCAGGCTGTTGATAGGCTGCTGAATCAGAAATCAGAAAT 1291

Db 541 TGGCAGAGATCTTTTCAATGCTATTTCAGGCTGTTGATAGGCTGCTGAATCAGAAATCAGAAAT 600  
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DB 601 ATCCAACTTGCACGAGTATCTTTTATTCCTCCACAGACTCCGCCAGACACCTAG 660  
QY 1352 TCCTGATGAAAGCTGCTGCTCTTGT-CTTAATATTCATATCAACAGACCATTCCTGGCA 1410  
DB 661 TCCTGATGAAAGCTGCTGCTCTTGTGCTCTTAATATTCATATCAACAGACCATTCCTGGCA 720  
QY 1411 TTCACATTTTAAAAATATGTGAAAGTGATAGGAGAACTGCAGCTGTCAATAGCCTAG 1470  
DB 721 TTCACATTTTAAAAATATGTGAAAGTGATAGGAGAACTGCAGCTGTCAATAGCCTAG 780  
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DB 781 GGTGAATTTTGTGCGGTGAAT-AAATAATSAATTTTCAACCTTTTGTGTTTATAAAA 837

RESULT 9  
US-09-224-110-8  
Sequence 8, Application US/09224110  
Patent No. 6337195  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSEE: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/224,110  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/469,667  
FILING DATE: 06-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 878 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2..685  
US-09-224-110-8

Query Match  
Best Local Similarity 47.0%; Score 790.8; DB 3; Length 878;  
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGTCTACTCAAGGTATTTTACACCACTATGACACGAGTGGTAGATACAGTGTAAAGTGGG 751

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QY 752 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGAGTATACCCACGACAGTGGAGCACT 811
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QY 812 GTACATACCTGGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 871
Db 121 GTACATACCTGGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 180
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Db 241 ATTTGTGGCTTCTGATGTCCTGATGTCCTGATGTCCTGATGTCCTGATGTCCTGATG 300
QY 992 CACCGACCTGAAGGGCGAAATTCACGGGGCGAGTCTCAATTAATCTGACTTGGACAGCTCC 1051
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Db 421 TCTTGATCTCAGACAGAGTCTCAATGAATCTCTCAAGTGAATACACTGCTCTCATCCC 480
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Db 481 AAAGGAGGCAACTCTGAGGAGTCTTTTGTGTTAAACAGAAACATTTACTTTTGAANA 540
QY 1232 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTTGATAAGTCTGATCTGAAATCAGAAAT 1291
Db 541 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTTGATAAGTCTGATCTGAAATCAGAAAT 600
QY 1292 ATCCAAACATTCACGAGATCTTTTGTATTCCTCCACAGACTCCGCGCAGACAGCTAG 1351
Db 601 ATCCAAACATTCACGAGATCTTTTGTATTCCTCCACAGACTCCGCGCAGACAGCTAG 660
QY 1352 TCTGATGAAACGCTGCTGCTCTGT - CCTAATATTCTATCAACAGCAGCATTTCTTGCCA 1410
Db 661 TCTGATGAAACGCTGCTGCTCTGTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCT 720
QY 1411 TTCACATTTTAAATATGATGGAAGTGGATAGGAACTGAGGCTGTCATAGGCTAGG 1470
Db 721 TTCACATTTTAAATATGATGGAAGTGGATAGGAACTGAGGCTGTCATAGGCTAGG 780
QY 1471 GCTGAATTTTCTCAGATAAATAAATAAATCAATTCATCTTTTGTGATTAATAA 1528
Db 781 GGTGAATTTTGTGGCGTGAAT-AAATAATATTTTCANCCCTTTTGTGTTTATAAAA 837
```

## RESULT 10

PCT-US95-07289-8

; Sequence 8, Application PC/TUS9507289

; GENERAL INFORMATION:

; APPLICANT: Yu, Guo-Liang

; APPLICANT: Rosen, Craig

; TITLE OF INVENTION: Colon Specific Genes and Proteins

; NUMBER OF SEQUENCES: 24

; CORRESPONDENCE ADDRESSES:

; ADDRESSES: Carella, Byrne, Bain, Gilfillan, Cecchi,

; ADDRESSES: Stewart &amp; Olstein

; STREET: 6 Becker Farm Road

; CITY: Roseland

; STATE: NJ

; COUNTRY: USA

; ZIP: 07068-1739

; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07289
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-265
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 878 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..685
; PCT-US95-07289-8
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Query Match 47.0%; Score 790.8; DB 5; Length 878;  
Best Local Similarity 97.9%; Pred. No. 1.3e-238;  
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

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QY 692 TGTCTACTCAAGGATTTTCAACATTTATGACAGCAATGATAGATACAGTGTAAAGTGCG 751
Db 1 TGTCTACTCAAGGATTTTCAACATTTATGACAGCAATGATAGATACAGTGTAAAGTGCG 60
QY 752 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGTATACCCACGACAGTGGAGCACT 811
Db 61 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGTATACCCACGACAGTGGAGCACT 120
QY 812 GTACATACCTGGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 871
Db 121 GTACATACCTGGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 180
QY 872 TAATAAGAGTATGTTTCAACACAGCAAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTC 931
Db 181 TAATAAGAGTATGTTTCAACACAGCAAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTC 240
QY 932 ATTTGTGGCTTCTGATGTCCTGATGTCCTGATGTCCTGATGTCCTGATGTCCTGATG 991
Db 241 ATTTGTGGCTTCTGATGTCCTGATGTCCTGATGTCCTGATGTCCTGATGTCCTGATG 300
QY 992 CACCGACCTGAAGGGCGAAATTCACGGGGCGAGTCTCAATTAATCTGACTTGGACAGCTCC 1051
Db 301 CACCGACCTGAAGGGCGAAATTCACGGGGCGAGTCTCAATTAATCTGACTTGGACAGCTCC 360
QY 1052 TGGGATGATTAATGACCATGGAACAGCTCACAAGTATATCAATCGAATAAGTACAGTAT 1111
Db 361 TGGGATGATTAATGACCATGGAACAGCTCACAAGTATATCAATCGAATAAGTACAGTAT 420
QY 1112 TCTTGATCTCAGACAGAGTCTCAATGAATCTCTCAAGTGAATACACTGCTCTCATCCC 1171
Db 421 TCTTGATCTCAGACAGAGTCTCAATGAATCTCTCAAGTGAATACACTGCTCTCATCCC 480
QY 1172 AAAGGAGGCAACTCTGAGGAGTCTTTTGTGTTAAACAGAAACATTTACTTTTGAANA 1231
Db 481 AAAGGAGGCAACTCTGAGGAGTCTTTTGTGTTAAACAGAAACATTTACTTTTGAANA 540
QY 1232 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTTGATAAGTCTGATCTGAAATCAGAAAT 1291
Db 541 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTTGATAAGTCTGATCTGAAATCAGAAAT 600
QY 1292 ATCCAAACATTCACGAGATCTTTTGTATTCCTCCACAGACTCCGCGCAGACAGCTAG 1351
Db 601 ATCCAAACATTCACGAGATCTTTTGTATTCCTCCACAGACTCCGCGCAGACAGCTAG 660
QY 1352 TCTGATGAAACGCTGCTGCTCTGT - CCTAATATTCTATCAACAGCAGCATTTCTTGCCA 1410
Db 661 TCTGATGAAACGCTGCTGCTCTGTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCT 720
QY 1411 TTCACATTTTAAATATGATGGAAGTGGATAGGAACTGAGGCTGTCATAGGCTAGG 1470
Db 721 TTCACATTTTAAATATGATGGAAGTGGATAGGAACTGAGGCTGTCATAGGCTAGG 780
QY 1471 GCTGAATTTTCTCAGATAAATAAATAAATCAATTCATCTTTTGTGATTAATAA 1528
Db 781 GGTGAATTTTGTGGCGTGAAT-AAATAATATTTTCANCCCTTTTGTGTTTATAAAA 837
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Db 601 ATCAACATTCGACGAGTATCTTTGTTTATTTCTCCACAGACTCCGCCGACAGACACTAG 660  
QY 1352 TCTGATGAACGCTGCTCCTTGT-CCATATATTCATCAACAGACCACTTCCTGGCA 1410  
Db 661 TCTGATGAACGCTGCTCCTTGTGCTTAATTCATATCAACAGACCACTTCCTGGCA 720  
QY 1411 TTCACATTTTAAAAATATCTGGAAGTGAGTAGGAACTGCGAGCTGTCATAGCCTTAGG 1470  
Db 721 TTCACATTTTAAAAATATCTGGAAGTGAGTAGGAACTGCGAGCTGTCATAGCCTTAGG 780  
QY 1471 GCTCAATTTTGTGACGATAATAAATAAATCAATTCATCCTTTTTTTGATTATAAAA 1528  
Db 781 GGTGAATTTTGTGCGGTGAAT-AAATAATSAATTCANCCCTTTTTTGTGTTATAAAA 837

## RESULT 11

US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068 US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-16

Query Match 40.0%; Score 673.8; DB 3; Length 3043;  
Best Local Similarity 69.2%; Pred. No. 2.2e-201;  
Matches 966; Conservative 0; Mismatches 417; Indels 12; Gaps 3;  
QY 1 AACAAAGTGTGGCCATCATCCACAGTCGGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60

Db 1293 AACAAAGTGGGCGCATCTGTTTCAATTTATGCTTTGGGAAGCTGCTGATGAAGCACTAA 1352  
QY 61 AGAGCTGTCAAAATACAGAGAGGTTTACAGACATATGCTTACAGATCAAGTTTCAAGACA 120  
Db 1353 TAGAGATGAGCAAGATAACAGAGGAGGATCATTTTATGTTTACAGATGAAGCTCAGAAC 1412  
QY 121 ATGGCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGAGCTGCTCTCAGCGCT 180  
Db 1413 ATGGCTCATGATGCTTTTGGGGCTCTTACATCAGGAATACGATCTCTCCAGAACT 1472  
QY 181 CCATCAGCTGTAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1473 CCCTTCAGCTCGAAGTAAGGGATTAACTGATAGTATGCTGATGATGAACACTG 1532  
QY 241 TGATGTGGACAGACCGTGGGAAAGGACACTTTGTTTCTTATCATCTGACACACGAGC 300  
Db 1533 TCATAATTTGATAGTACAGTGGGAAAGGACACAGTCTTCTCATCAGACGAACTGCTGC 1592  
QY 301 CTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAGCAAGGCTTGTAGTGACA 360  
Db 1593 CTCCAGTATTTCTCTCTGGGATCCAGTGGGAAACATAATGGAATAATTCACAGTGGATG 1652  
QY 361 AAAACACCAAATGGCCCTACCTCCAAATCCAGGCAATTGCTAAAGTTGGCACTTGGAAAT 420  
Db 1653 CAATTCCAAATGGCCCTATCTCAGTATTCAGGAAGTCAAGAGTGGCACTTGGCAT 1712  
QY 421 ACAGTGC-----AAGCAAGCTCAAAACCTTGACCTGACTGTCACTGCCGTGCGT 474  
Db 1713 ACAATCTTCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGT 1772  
QY 475 CCAATGCTACCTGCTCCAAATTTACAGTGAATTTCCAAACAGACAGGACACAGCAAGT 534  
Db 1773 CAAATCTTCTGTGCTTCCAAATCACAGTGAATGCTAAATGAATAAGGAGTAAACAGTT 1832  
QY 535 TCCCGAGCCCTCTGTGATTTATGCAAAATATTCGCAAGAGGCTCCCAATTTCTCAGGG 594  
Db 1833 TCCCGAGCCCAATGATGTTTACGCAAGATTTCTACAGAGATGATGATCTTCTGGAG 1892  
QY 595 CCAAGTGCACAGCCCTGATGATGAATGATGAATGGAAGGAAACAGTTACCTGGAAGTCTGG 654  
Db 1893 CCAATGTGACTGCTTTTCAATGATACAGAAATGCAATACAGAAAGTTTTCGAACTTTGG 1952  
QY 655 ATATGAGCAGCTGCTGATGCTTAAAGATCAGGCTGCTACTCAAGTATTTTCAAA 714  
Db 1953 ATATGCTGAGCGCTGATTTCTTCAAGAAATGATGAGTCTACTCCAGTATTTTACAG 2012  
QY 715 CTTATGACACGAATGTTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAAACGAG 774  
Db 2013 CATATACAGAAATGGCAGATATAGCTTAAAGTTCGGGCTCATGGAGGAGCAACACTG 2072  
QY 775 CCAGAGGAGAGTGATACCCAGCAGAGTGGAGACATGTATACATACCTGGCTGGATTGAGA 834  
Db 2073 CCAGGCTAAAAATACGGCTCCCACTGAATAGAGCGGCTACATACAGAGCTGGGTAGTA 2132  
QY 835 ATGATGAATACAAATGGAATCCACCAAGACTGAATTAATAGGATGATGTTCAACACA 894  
Db 2133 ACGGGAAATTTGAAGCAAAACCCCAAGAGCTGAATTTGAT---GAGGATACTCAGACCA 2189  
QY 895 AGCAAGTGTGTTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAA 954  
Db 2190 CTTGGAGGATTTACCGGCAAGCAGATCCGAGGTGATTTGTGGTATCAAGTCCCAA 2249  
QY 955 ATGCTCCCAATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGGAAGCGGAAATTC 1014  
Db 2250 GCCTTCCCTTGCCTGACCAATACCCCAAGTCAAATCACAGACCTTGATGCCACAGTTC 2309  
QY 1015 ACGGGGAGCTCTCATTAATCTGACTGACAGCTCCTGGGAGTATTATGACCATGGAA 1074  
Db 2310 ATGAGG---ATAAGATTTATTTACATGGACAGCACCAGGAGATAATTTTGTGTTGGAA 2366  
QY 1075 CAGCTCAAGATATATCATTTCGAATTAAGTACAAAGTATTTCTTGATCTCAGAGACAAGTTCA 1134

Db 2367 AAGTTCAACGTTATATCATAGAAATAAGTGCAGATATTCTTGATCTAAGAGACAGTTTGT 2426  
Qy 1135 ATGATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAG 1194  
Db 2427 ATGATGCTCTTCAAGTGAATCTACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAG 2486  
Qy 1195 TCCTTTTGTGTTTAAACCAAGAAACATTTACTTTTGAATAATGGCAGAGATCTTTTCAATGCTA 1254  
Db 2487 GCCTTGCATTTAAACCAAGAAATATCTCAGNAGAAATGCAACCCACATATTATTGCCA 2546  
Qy 1255 TTCAGGCTGTGATAGGCTGATCTGAATCAGAAATATCAACATTTGCAGAGTATCTT 1314  
Db 2547 TTAAGATATAGATAAAGCAATTTGACATCAAAAGTATCCAACTTGCACAACTT 2606  
Qy 1315 TGTTTATCTCCACAGACTCCGCGCAGAGACACCTAGTCTCTGATGAACAGTCTCTCTCT 1374  
Db 2607 TGTTTATCTCCACAGAAATCTGATGACATTTGATCTCTCTCTCTCTCTCTCTCTCTCT 2666  
Qy 1375 GTCCTAATATTCTA 1389  
Db 2667 CTGATAAAGTCATA 2681

## RESULT 12

US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLABS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068 US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single

; TOPOLOGY: linear  
US-09-049-698-18  
Query Match 40.0%; Score 673.8; DB 3; Length 3181;  
Best Local Similarity 69.2%; Pred. No. 2.3e-201;  
Matches 966; Conservative 0; Mismatches 417; Indels 12; Gaps 3;  
Qy 1 AACNAAGTGTGGCCATCATCCACACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1304 AACAAAGTGGGGCCCAATTTGTTTATTTTGGGAAGAGCTGCTGATGAACAGTAA 1363  
Qy 61 AGGAGCTGTCCAAATCACAGAGGTTTACAGACATATGCTTACAGTCAAGTTTCAGAAC 120  
Db 1364 TAGAGATGACAGATTAACAGAGGAAGTCAATTTTATGTTTACAGATGAAGCTCAGAAC 1423  
Qy 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGGCT 180  
Db 1424 ATGGCTCATTTGATGCTTTTGGGGCTCTTACATCAGGAAATACTGATCTCTCCAGAA 1483  
Qy 181 CCATCCAGCTTGAGATGAAGGATTAACTCTCCAGACAGCCAGTGTGATGATGGCAG 240  
Db 1484 CCCTTCAGCTCGAAAGTAAGGGATTAACTGTAATAGTGTGATGAACACACTG 1543  
Qy 241 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTTGTCTTATCACCTGGACACGCGC 300  
Db 1544 TCATATTGATGATCAGTGGGAAAGGACAGCTTTCTTCTATCAGATGAACAGTCTGC 1603  
Qy 301 CTCGCCAAATCCTTCTCTGGGATCCAGTGGACAGAAAGTGGCTTTGTAGTGACA 360  
Db 1604 CTCAGTATTTCTCTCTGGGATCCAGTGGAAACATAATGAAATTTTACAGTGGATG 1663  
Qy 361 AAAACACCAAAATGGCTACTCTCAATCCAGGCAATGCTAAGTTGGACATTTGGAAT 420  
Db 1664 CAATCTCCAAATGGCTCTCTCAGTATCCAGGAACTGCAAGAGTGGGCACTTTGGG 1723  
Qy 421 ACACTCTGC-----AAGCAAGCTTCAAAACCTTTGACCTGTGTACCTCCCGTGG 474  
Db 1724 ACAATCTTCAAGCCAAAGCGAACCCGAAACATTAATTTACAGTAACTTCTCGAG 1793  
Qy 475 CCAATGCTACCTGCTTCCAAATTAAGTGTACTTCCAAACAGCAAGGACACCAAGAA 534  
Db 1784 CAAATTTCTTGTGCTCTCCAATCAGATGAATGTAAATGAATGAAGAGCTAAACAG 1843  
Qy 535 TCCCGAGCCCTCTGTAGTTTATGCAATATTCGCAAGAGGCTCTCCCAATTTCTCAGG 594  
Db 1844 TCCCGAGCCCAATGATTTTACGAGAAATTTTACAGAAATTTTACAGGATATGTA 1903  
Qy 595 CCAGTGTACAGCCCTGATTTGAATCAAGTGAATGGAATAACAGTTTACCTTGGAACT 654  
Db 1904 CCAATGTGACTGCTTTTCAATTCAGATTCAGATTCAGATTCAGATTTTGGACT 1963  
Qy 655 ATAATGGAGAGGCTGTGATGCTTACTAAGATGACGGTGTCTACTCAAGTATTTTCA 714  
Db 1964 ATAATGGTGCAGGCTGATTTCTTCAAGAAATGATGGAGTCTACTCCAGGATTTT 2023  
Qy 715 CTTATGACAGAAATGGTGTAGATACAGTCTAAAGTGGGGCTCTGGGAGGAGTTAA 774  
Db 2024 CATATACAGAAATGGCAGATATAGCTTAAAGTTTGGGCTCATGGAGGAGCAAC 2083  
Qy 775 CCAGAGCGAGATGATACCCAGCAGAGTGGAGCACTGTATACATCTGGCTGCAAT 834  
Db 2084 CCAGGCTAAATTTACGGCCCTCCACTGAATAGAGCCGCTACATACCAGGCTGG 2143  
Qy 835 ATGATGAATACATGGAATCCACCAAGACCTGAATTAATAGGATGATGTTTCAAC 894  
Db 2144 ACGGGAAATTTGAAGCAAAACCCGCAAGACCTGAAATTTGAT---GAGGATCT 2200  
Qy 895 AGCAAGTGTGTTTTCAGCAGAAACATCTCCGGAGGCTCATTTGTGGCTTCTGAT 954  
Db 2201 CCTTGGAGGATTTTACGCCGAGACAGATCCGAGAGTGTGATTTTGGTATCAG 2260  
Qy 955 ATGCTCCCATPACTGTATCTCTTCCCACTGGCCAAATTCACCGACCTGAAGCGG 1014

Db 2261 GCCTTCCCTTGCCTGACCAATACCAAGTCAAAATCACAGACCTTGATGCCACAGTTC 2320  
QY 1015 ACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATATGACCATGGAA 1074  
Db 2321 ATGAGG---ATAAGATATCTTATCATGGACAGCACCCAGGAGATAATTTTGATTTGGAA 2377  
QY 1075 CAGCTCAAGATATATCATTCGAAATAGTACAAGTATTCTTGATCTCAGAGACAAGTTCA 1134  
Db 2378 AAGTTCAAGCTTATATCATAGATATAGTCAAGTATCTTGATCTAGAGACAGTTTG 2437  
QY 1135 ATGAATCTTCAAGTGAATATCTGCTCTCTATCCCAAAGGAAGCAACTCTCAGGAAG 1194  
Db 2438 ATGATGCTCTTCAAGTAAATATCTGATCTGTACCAAGAGGAGGCCAACTCCAAAGAAA 2497  
QY 1195 TCTTTTGTAAACACGAAACATTAATTTTGAATGGACAGATCTTTTCATTGCTA 1254  
Db 2498 GCTTTGCAATTAACACGAAATATCTCAGAAAGAAATGCAACCAATATTTATTGCCA 2557  
QY 1255 TTCAGGCTGTTGATAAGTCTGATCGAAATCAGAAATATCCAACTTGACAGATATCTT 1314  
Db 2558 TTAAAGTATAGATAAAGCAATTTGACATCAAAAGTATCCAACTTGACAAAGTAACTT 2617  
QY 1315 TGTATTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTCTGCTCCTT 1374  
Db 2618 TGTATTCCCTCAAGCAAAATCCTGATGACATGATGATCTCTACTCTCTACTCTCTACTC 2677  
QY 1375 GTCTTAATATTCTA 1389  
Db 2678 CTGATAAAGTCTA 2692

## RESULT 13

US-09-016-434-928  
; Sequence 928, Application US/09016434  
; Patent No. 650938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 928:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1081 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single

; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNROT05  
; CLONE: 774419  
; US-09-016-434-928

Query Match 26.2%; Score 441.4; DB 4; Length 1081;  
Best Local Similarity 69.2%; Pred. No. 1.8e-128;  
Matches 633; Conservative 0; Mismatches 276; Indels 6; Gaps 2;  
QY 475 CCAATGCTACCCCTCCCAATACAGTGAATCCAAAACGAAACAGACACCAAGCAAT 534  
Db 2 CAAATCTCTCTGTCCTCCCAATCAAGTGAATGCTAAATGAATAAGACCTAAACAGTT 61  
QY 535 TCCCGACCCCTCTGTTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCAATTTCTCAGGG 594  
Db 62 TCCCGACCCCAATGATTTGTTTACGCAAAATTCACAAAGGATATGTACCTGTTCTTGAG 121  
QY 595 CCAGTGTACAGCCCTGATTTGAATCAGTGAATGGAATAAGCAAGTTCACCTTGGAACTACTGG 654  
Db 122 CCAATGCTGCTCTTTCATTTGAATCAGAAATGACATACAGAAATTTTGGAACTTTTGG 181  
QY 655 ATAATGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAA 714  
Db 182 ATAATGCTGACGGGCTGATTTCTTCAAGATGATGGAGTCTACTCCAGGTATTTTACAG 241  
QY 715 CTTATGACAGAAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTTAACGAG 774  
Db 242 CATATACAGAAATGGCAGATATAGCTTAAAGTTTCGGGCTCATGGAGGAGCAAACTG 301  
QY 775 CCAGCGGAGAGTGATACCCAGCAGAGTGAGCACTGTATACATACCTGGCTGGATTGAGA 834  
Db 302 CCAAGCTAAATTAACGGCTCCACTGAATAGAGCCGCTATACACCAAGGCTGGTAGTGA 361  
QY 835 ATGATGAATATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACA 894  
Db 362 ACGGGGAATTTGAAGCAAAACCCGCCAAGACCTGAAATGAT---GAGGATATCTCAGACCA 418  
QY 895 AGCAAGTGTCTTTCAGCAGAAACATCTCTGGAGGCTCATTTTGGCTTCTGATGTCCTCAA 954  
Db 419 CTTGGAGGATTTTCAGCCGAAACAGCATCCGAGGTGCTATTTGGTATCATCAAGTCCCAA 478  
QY 955 ATGCTCCCATACCTGATCTCTTCCACCTGCCAAATACCGACCTGAAGCGGAAATTC 1014  
Db 479 GCCTTCCCTTGCCTGACCAATACCCCAAGTCAAAATCAAGACCTTTGATGCCACAGTTC 538  
QY 1015 ACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTATGACCATGAA 1074  
Db 539 ATGAGGATAG---ATTATTTCTTACATGGACAGCACCCAGGAGATAATTTTGATTTGGAA 595  
QY 1075 CAGCTCAAGATATATCATTCGAAATAGTACAAGTATCTTGATCTCAGAGACAAGTTCA 1134  
Db 596 AAGTTCAACGTTATATCATAAAGATAAGTCAAGTATTTCTGATCTAAGAGACAGTTTG 655  
QY 1135 ATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGGAGCAACTCTGAGGAAG 1194  
Db 656 ATGATGCTCTTCAAGTAAATCTACTGATCTGTCTCACCAGAGGAGGCAACTCCAAAGAAA 715  
QY 1195 TCTTTTGTAAACACGAAACATTAATTTTGAATGGCAGATCTTTTCATTGCTA 1254  
Db 716 GCTTTGCAATTAACCCAGAAATATCTCAGAGAAATGCAACCCACATATTTATTGCCA 775  
QY 1255 TTCAGGCTGTTGATAAGGCTGATCTGAAATCAGAAATATCCAACTTGACAGATATCTTT 1314  
Db 776 TTAAGAGTATAGATAAAGCAATTTGACATCAAAAGTATCCAACTTGACAAAGTAACTT 835  
QY 1315 TGTATTCTTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCCTT 1374  
Db 836 TGTATTCCCTCAAGCAAAATCCTGATGACATGATGATCTCTACTCTCTACTCTCTACTC 895  
QY 1375 GTCTTAATATTCTA 1389  
Db 896 CTGATAAAGTCTA 910

## RESULT 14

US-09-049-698-17  
; Sequence 17, Application US/09049698  
; Patent No. 6368792

## GENERAL INFORMATION:

; APPLICANT: BILLING-MEDEL, PATRICIA A.

; APPLICANT: COHEN, MAURICE

; APPLICANT: COLPITTS, TRACEY L.

; APPLICANT: FRIEDMAN, PAULA N.

; APPLICANT: HAYDEN, MARK

; APPLICANT: KLASS, MICHAEL R.

; APPLICANT: ROBERTS-RAPP, LISA

; APPLICANT: RUSSELL, JOHN C.

; APPLICANT: STROUPE, STEPHEN D.

; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

; DETECTION OF GASTROINTESTINAL DISEASES

; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

; TRACT

; NUMBER OF SEQUENCES: 51

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Abbott Laboratories

; STREET: 100 Abbott Park Road

; CITY: Abbott Park

; STATE: IL

; COUNTRY: USA

; ZIP: 60064-3500

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: PastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; FILING DATE: US/09/049,698

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: 08/828,856

; FILING DATE: 31-MAR-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Becker, Cheryl L.

; REGISTRATION NUMBER: 35,441

; REFERENCE/DOCKET NUMBER: 6068.US.P1

; TELEPHONE: 847/935-1729

; TELEFAX: 847/938-2623

; TELEX:

; INFORMATION FOR SEQ ID NO: 17:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1399 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-049-698-17

Query Match 26.2%; Score 441.4; DB 3; Length 1399;

Best Local Similarity 69.2%; Pred. No. 2.1e-128;

Matches 633; Conservative 0; Mismatches 276; Indels 6; Gaps 2;

QY 475 CCAATGCTACCTGCTCCATTACAGTACTTCCAAACGAAACAGGACACCAAGTAAAT 534

Db 2 CAATCTCTGCTGCTCCATCACAGTGAATGCTAAATGAATAAGGACGTAACAGTT 61

QY 535 TCCGAGCCCTCTGCTAGTTATGCAATATTCGCCAAGGAGCCCTCCCAATTTCTCAGG 594

Db 62 TCCGAGCCCAATGATTGTTTACGCGAAATTTCTACAAGGATATGTACTCTGTTCTTGAG 121

QY 595 CCAGGTACAGCCCTGATTGAATCAGTGAATGGAACAGTTACCTTTGGAATCTACTGG 654

Db 122 CCAATGCTGCTTTCTATTGAATCAGATGGAATGGAATGGAATTTGGAATTTGG 181

QY 655 ATAATGGAGCGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAA 714

Db 182 ATATGCTGCAGGCGCTGATTCTTTCAAGAATGATGAGTCTACTCCAGGTATTATTACAG 241

QY 715 CTTATGACAGATGTTAGATACAGTGTAAAGTGGCGGCTCTCGGAGGAGTTAAACGAG 774

Db 242 CATATACAGAAATGGCAGATATAGCTTTAAAGTTCGGGCTCATGGAGGAGCAACACTG 301

QY 775 CCAGACGAGAGTGTATACCCAGCAGAGTGGAGCACTGTATACATACCTGGCTGGATTGAGA 834

Db 302 CCAGGCTAAATTTACGGCTCTCCACTGAATAGAGCGGCTACATACAGGCTGGTAGTGA 361

QY 835 ATGATGAATACAAATGGAATCCACCAAGACTGAAATTAATTAAGATGATGTTCAACACA 894

Db 362 ACGGGGAATTTGAAGCAAAACCGCCAAAGACTGAAATTTGAT---GAGATACTCAGACCA 418

QY 895 AGCAAGTGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGCCAA 954

Db 419 CTTTGGAGGATTTTCAGCGCAACAGCATCCGAGGAGTGATTTGTGGTATCACAAGTCCAA 478

QY 955 ATGCTCCATACCTGATCTCTCCACCTGCGCAAAATCACCGACTGAAAGCGGAAATTC 1014

Db 479 GCCTTCCCTGCTGACCAATACCCCAAGTCAATCACAGACCTTGATGCCACAGTTC 538

QY 1015 ACGGGGCACTCTCATTTAAATCTGACTTGGACAGCTCTCTGGGATGATTTATGACCATGAA 1074

Db 539 ATGAGGATAAG---ATTATTCTTACATGGACAGCACCCAGGAGATAATTTTGTGTTGAA 595

QY 1075 CAGCTCAAGTATATCATTTGCAATAGTACAGTATTTCTTGATCTCAGACAGTTC 1134

Db 596 AAGTTCAACGTATATCATGAATAAGTGAAGTATTTCTTGATCTAAGACAGATTTTG 655

QY 1135 ATGAATCTCTTCAAGTGAATACTGCTCTCATCTCCAAAGAAAGCAACTCTGAGGAAG 1194

Db 656 ATGATGCTCTTCAAGTAAATACTACTGATCTGTCCCAAGAGGCGCAACTCCAAAGAA 715

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QY 1255 TTCAGGCTGTTGATAAGTCTGATCTGAATCAGAAATATCAACATTCACAGTATCTT 1314

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QY 1375 GTCCTAATATTCATA 1389

Db 896 CTGATAAAGTTCATA 910

## RESULT 15

US-09-193-562D-1

; Sequence 1, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; CHANNEL-ADHESION MOLECULES

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 1

; LENGTH: 3317

; TYPE: DNA

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: sequence encoding Lu-BCAM-1 and Lu-BCAM-1 associated

; protein from bovine endothelial cells

US-09-193-562D-1



Query Match		24.6%;	Score 414.4;	DB 3;	Length 3317;
Best Local Similarity		59.6%;	Pred. No. 1.2e-119;		
Matches 804;		Conservative 0;	Mismatches 516;	Indels 30;	Gaps 5;
Qy	1	AACAAAGTGGTCCCATCATCCACAGATCGCTTTGGGGCCCTCTCAGCTCAAGAAGTAG	60		
Db	1351	AACGAAGTGGTCAATCATCCACACCAATGCTCTGGACCCCTCTGCTGCCAAGAACCTGG	1410		
Qy	61	AGGACGTCTCMAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACA	120		
Db	1411	AGACATTGTCAAATATGACAGAGGATATC-----GTTTTTTTGGCAATAAAGACATAA	1464		
Qy	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTCTCTCAGCGCT	180		
Db	1465	CTGGCTTACTAATGCTTTTCACTAGTAGAATTTTCACTAGAAAGTGGAAAGCATCACTCAGCAGG	1524		
Qy	181	CCATCCAGCTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG	240		
Db	1525	CTATTTCAGTTGGAAAGCAAGCCTTGAAATTTACAGGAAGGAAGAGTAACGGCACAG	1584		
Qy	241	TGATCGTGGACAGACCGTGGGAAGGACACTTTGTTTCTTATACCTCGGACAAAGCAGC	300		
Db	1585	TGCTGTAGACAGTACAGTTGGAAATGACACTTTCTTTGTTGTACATGGACAATACAAA	1644		
Qy	301	CTCCCAATCCTTCTCTGGATCCAGTGGACAGAAGCA-----AGTGGCTTTG	351		
Db	1645	AACCAGAAATTTGTTCTCCAGATCCAAAGGAAGAAATATAAACCCTCGGATTTCAAAG	1704		
Qy	352	TAGTGGACAAAACACCAAAATGGCCTTACCTCCAAATCCAGGCATTTGCTAAGGTTGGCA	411		
Db	1705	AAGATAAGTTAAATATTCGATCTGCTCTGCTGCAAAATACCTGGTATTGACAGACAGTA	1764		
Qy	412	CTTGGAAATACAGTCTGC-----AAGCAAGCTCAAAACCTTGACCCCTGACTGTCA	462		
Db	1765	CTTGGACTTACAGCCTTTCAAATATCATGCGCAGCTCTCAAATGCTTAACAGTGACAGTGA	1824		
Qy	463	CGTCCCGTGCCTCAATGCTACCTCGCTCCAAATTTACAGTACCTTCCAAACGGAACAGG	522		
Db	1825	CCATCGAGCAAGAGTCTTACTATATCCCCAGTAATTTGCAACAGCTCACATGAGTCAAC	1884		
Qy	523	ACACAGCAAAATCCCGAGCCCTCTGGTAGTATTTATGCAAAATATTCGCCAAGGAGCCTCCC	582		
Db	1885	ATACAGCACATTTATCTTAGCCCAATGATTGTTTATGCAAGTCACTCAAGGTTTTTGC	1944		
Qy	583	CAATTCTCAGGCCAGTGTACAGCCCTGATGTAATGATGTAATGGAATAAACAAGTACCT	642		
Db	1945	CTGTACTGGGAATCAGTGTAAATAGCCATTTAGAAACCGAAGATGGACATCAAGTAACAT	2004		
Qy	643	TGGAATCTACTGGATAATGGAGCAGGTGCTGATGCTACTTAAGGATGACGGTGTCTACTCA	702		
Db	2005	TGGAGCTCTGGGCAATGGTGACAGTCTGATGATCTGTCAAGAAATGATGGCACTACTCAA	2064		
Qy	703	GGTATTTCAACATTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAG	762		
Db	2065	GATACTTTACAGATTTACTATGGAATGGTAGATACAGTTTAAAGTACATGCAAGGCAA	2124		
Qy	763	GAGTTAAGCAGCCAGAGGAGTGTATCCCCAGCAGAGTGGAGCACTGTACATACCTG	822		
Db	2125	GAACAACACAGCGGTAGGCTAAATTTAAGACAACACAGACAAGATTTCTATGTTCCAG	2184		
Qy	823	GCTGGATTGAGATGATGAATATAAATGGAATCCACCAAGCCTGAAATTAATTAAGGATG	882		
Db	2185	GCTACGTTGAAACCGTTAAATATTATCTGAACCCAGACCTGGAAGTCAAGATGACC	2244		
Qy	883	ATGTTCAACAACAGCAAGTGTGTTTTCAGCAGAAACATCTCGGGAGGCTCATTTGTGGCTT	942		
Db	2245	TGGCAAAAGCTTAAATAGAGACITTTAGCAGACTAACTCTGGAGGGTCAITTTACTGTAT	2304		
Qy	943	CTGATGTCCCAATGTCTCCCA---TACCTGATCTCTTCCCACTGGCCAAATCACCGACC	999		
Db	2305	CAGGAGCTCCTCCTCGTAAATCACCGCTTCTGTGTCTCCACCCAGTAAATTACAGATC	2364		

Qy	1000	TGAAGGCGGAATTTACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATG	1059
Db	2365	TTGAGGCTAAGTTTCAAAGAAG---ATTATATTCACTTTTCATGGACAGCCCTGGCAATG	2421
Qy	1060	ATTATGACCATGGAAACAGCTCACAGATATATCATTTCCGAATAGTACAAGTATTTCTTGATC	1119
Db	2422	TCCTAGATAAAGGAAAGCCACAGCTACATTAAGAATAAGTAAGAGTTTTCATGGATC	2481
Qy	1120	TCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATFACTCTCTCATCCCAAGGAAG	1179
Db	2482	GTCAAGAAAGATTTTGACAAATCGACTTTTGTGTAATFACTTTCTAACTAATACCTAAGGAGG	2541
Qy	1180	CCAACCTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAAACATTTACTTTTGAAAATGGCACAG	1239
Db	2542	CCGGATCAAAAGAAAAATTTTGAATTTTAAGCCAGAACATTTTAGAGTAGAAAATGGCACCA	2601
Qy	1240	ATCTTTTTCATTGCTATTTCAGGCTGTGTGATAAGGTGCTGAAATCAGAAATATCCACA	1299
Db	2602	AATCTATATTTCAGTCCAGCCATCAAGAGCCCATCTCATCTCAGAGGTTTCTCACA	2661
Qy	1300	TTGCAAGGATATCTTTGTTTATTTCTCCAC	1329
Db	2662	TTGTACAAGCAATCAAAATTTATTCCTCTAC	2691

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 14:21:36 ; Search time 525.22 Seconds

(without alignments)  
16392.172 Million cell updates/sec

Title: US-09-049-696-19

Perfect score: 1683

Sequence: 1 AACAAAGTGTGCCATCATC.....AAATGCTAAACAACCTGGGTA 1683

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3403857 seqs, 2557783690 residues

Total number of hits satisfying chosen parameters: 6807714

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*  
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20: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1683	100.0	3109	15	US-10-106-698-2111 Sequence 2111, Ap
2	1683	100.0	3111	9	US-09-823-356-25 Sequence 25, Appl
3	1683	100.0	3111	9	US-09-981-333-191 Sequence 191, Appl
4	1683	100.0	3111	15	US-10-235-994-25 Sequence 25, Appl
5	1683	100.0	3267	9	US-09-764-868-22 Sequence 22, Appl
6	1676.6	99.6	3007	14	US-10-055-4128-27 Sequence 27, Appl
7	1671	99.3	3311	9	US-09-922-217-1056 Sequence 1056, Ap
8	1671	99.3	3311	9	US-09-833-263-1056 Sequence 1056, Ap
9	1671	99.3	3311	13	US-10-025-380-1056 Sequence 1056, Ap
10	1671	99.3	3311	15	US-10-393-590-11 Sequence 11, Appl
11	1671	99.3	3311	15	US-10-393-590-12 Sequence 12, Appl
12	1671	99.3	3311	15	US-10-393-590-46 Sequence 46, Appl
13	1671	99.3	3311	15	US-10-393-590-47 Sequence 47, Appl

14	1671	99.3	3311	15	US-10-393-567-11	Sequence 11, Appl
15	1671	99.3	3311	15	US-10-393-567-12	Sequence 12, Appl
16	1671	99.3	3311	15	US-10-393-567-46	Sequence 46, Appl
17	1671	99.3	3311	15	US-10-393-567-47	Sequence 47, Appl
18	1671	99.3	3311	15	US-10-394-087-11	Sequence 11, Appl
19	1671	99.3	3311	15	US-10-394-087-12	Sequence 12, Appl
20	1671	99.3	3311	15	US-10-394-087-46	Sequence 46, Appl
21	1671	99.3	3311	15	US-10-394-087-47	Sequence 47, Appl
22	1528.4	90.8	2854	15	US-10-106-698-1971	Sequence 1971, Ap
23	1526.8	90.7	2867	15	US-10-106-698-351	Sequence 351, App
24	1512	89.8	1512	16	US-10-305-720-850	Sequence 850, App
25	1467.4	87.2	2745	14	US-10-270-595-5	Sequence 5, Appli
26	1467.4	87.2	4569	10	US-09-867-034-3	Sequence 3, Appli
27	1467.4	87.2	4569	15	US-10-276-115-3	Sequence 3, Appli
28	942.6	56.0	2931	14	US-10-270-595-1	Sequence 1, Appli
29	790.8	47.0	878	9	US-09-988-292-8	Sequence 8, Appli
30	790.8	47.0	878	17	US-10-776-601-8	Sequence 8, Appli
31	673.8	40.0	2751	17	US-10-482-669-2	Sequence 2, Appli
32	673.8	40.0	2754	15	US-10-345-680-33	Sequence 33, Appl
33	673.8	40.0	3043	13	US-10-025-167-16	Sequence 16, Appl
34	673.8	40.0	3169	9	US-09-981-353-53	Sequence 53, Appl
35	673.8	40.0	3169	15	US-10-235-994-15	Sequence 15, Appl
36	673.8	40.0	3181	13	US-10-025-167-18	Sequence 18, Appl
37	673.8	40.0	3204	15	US-10-345-680-31	Sequence 31, Appl
38	673.8	40.0	3204	17	US-10-482-669-6	Sequence 6, Appli
39	673.8	40.0	3218	15	US-10-087-080-33	Sequence 33, Appl
40	667.6	39.7	3196	14	US-10-158-646-39	Sequence 39, Appl
41	667.6	39.7	3199	16	US-10-276-774-993	Sequence 993, App
42	667.6	39.7	3265	9	US-09-989-722-378	Sequence 378, App
43	667.6	39.7	3265	9	US-09-989-723-378	Sequence 378, App
44	667.6	39.7	3265	9	US-09-989-279-378	Sequence 378, App
45	667.6	39.7	3265	9	US-09-989-727-378	Sequence 378, App

#### ALIGNMENTS

#### RESULT 1

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA003F1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 1683; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60

Db 1164 AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1223

Qy 61 AGGAGCTGTCCAAATACAGAGGTTTACAGACATATGTTTCAGATCAAGTTTCAGAAACA 120

Db 1224 AGGAGCTGTCCAAATACAGAGGTTTACAGACATATGTTTCAGATCAAGTTTCAGAAACA 1283

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Db 1284 ATGGCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCTCAGCGCT 1343  
QY 181 CCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCACAG 240  
Db 1344 CCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCACAG 1403  
QY 241 TGATCGTGGACAGACCCCTGGGAAAGGACACTTTTGTCTTATACCTGGACACAGCGAGC 300  
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QY 301 CTCCCAAAATCTCTCTGGGATCCAGTGGACAGAACAGTGGCTTTGTAGTGGACA 360  
Db 1464 CTCCCAAAATCTCTCTGGGATCCAGTGGACAGAACAGTGGCTTTGTAGTGGACA 1523  
QY 361 AAAACACCAAAATGSCCTTACCTCCAAATCCAGGCAATTCCTAAGGTTGGCACTTGGAAAT 420  
Db 1524 AAAACACCAAAATGSCCTTACCTCCAAATCCAGGCAATTCCTAAGGTTGGCACTTGGAAAT 1583  
QY 421 ACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACCTGTCACTGCCGTGGTCCCAATG 480  
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QY 481 CTACCTGCTCCCAATACAGTGACTTCCAAAACGAAAGGACACAGCAAAATTCGCCCA 540  
Db 1644 CTACCTGCTCCCAATACAGTGACTTCCAAAACGAAAGGACACAGCAAAATTCGCCCA 1703  
QY 541 GCCCTCTGGTAGTTATGCAAAATATGCGCAAGGAGCCCTCCCAATCTCAGGGCCAGTG 600  
Db 1704 GCCCTCTGGTAGTTATGCAAAATATGCGCAAGGAGCCCTCCCAATCTCAGGGCCAGTG 1763  
QY 601 TCAGAGCCCTGATGAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTGGAATG 660  
Db 1764 TCAGAGCCCTGATGAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTGGAATG 1823  
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QY 721 ACACGAATGGTAGATACAGTGTAAAGTGCGGGCTCTCGGAGGAGTTAACCCAGCCAGAC 780  
Db 1884 ACACGAATGGTAGATACAGTGTAAAGTGCGGGCTCTCGGAGGAGTTAACCCAGCCAGAC 1943  
QY 781 GGAGAGTATACCCAGCAGAGTGGACACCTGTATACCTTGGCTGGATGAGATGATG 840  
Db 1944 GGAGAGTATACCCAGCAGAGTGGACACCTGTATACCTTGGCTGGATGAGATGATG 2003  
QY 841 AAATACAAATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAG 900  
Db 2004 AAATACAAATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAG 2063  
QY 901 TGTGTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAATGCTC 960  
Db 2064 TGTGTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAATGCTC 2123  
QY 961 CCATACCTGATCTCTCCACCTGSCCAAAATCACCGACCTGACGCGGAATTCACGGG 1020  
Db 2124 CCATACCTGATCTCTCTCCACCTGSCCAAAATCACCGACCTGACGCGGAATTCACGGG 2183  
QY 1021 GCAGTCTCATTAATCTGACTGGACAGCTCTCGGGGATGATTAATGACCATGGAACAGCTC 1080  
Db 2184 GCAGTCTCATTAATCTGACTGGACAGCTCTCGGGGATGATTAATGACCATGGAACAGCTC 2243  
QY 1081 ACAAGTATATCATTCGAAATAGTACAGTATTTCTGTCTCTCAGACAAAGTTCAATGAAT 1140  
Db 2244 ACAAGTATATCATTCGAAATAGTACAGTATTTCTGTCTCTCAGACAAAGTTCAATGAAT 2303  
QY 1141 CTCTTCAAGTGAATTAAGTACTGCTCTCATCCCAAGGAGCCAACTCTCAGGAAGTCTTTT 1200  
Db 2304 CTCTTCAAGTGAATTAAGTACTGCTCTCATCCCAAGGAGCCAACTCTCAGGAAGTCTTTT 2363  
QY 1201 TGTGTTAAACCAAAACAACTTACTTTTGAATAATGGCACAGATCTTTTTCATTGCTATTACG 1260

Db 2364 TGTGTTAAACCAAAACAACTTACTTTTGAATAATGGCACAGATCTTTTTCATTGCTATTACG 2423  
QY 1261 CTGTTGATAGGTGATCTGAAATCAGAAATATCAACATTCACAGATGATCTTTTGTGTTTA 1320  
Db 2424 CTGTTGATAGGTGATCTGAAATCAGAAATATCAACATTCACAGATGATCTTTTGTGTTTA 2483  
QY 1321 TTCCTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGTCCTCTCTCTGTCCTA 1380  
Db 2484 TTCCTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGTCCTCTCTCTGTCCTA 2543  
QY 1381 ATATTTCATATCAACAGCACCATTCTTGGCATTCACATTTTAAAAATATGTGGAAGTGA 1440  
Db 2544 ATATTTCATATCAACAGCACCATTCTTGGCATTCACATTTTAAAAATATGTGGAAGTGA 2603  
QY 1441 TAGGAGAACTCAGCTGTCAATAGCTAGCTAGGGCTGAAATTTTGTGAGATAAAATAA 1500  
Db 2604 TAGGAGAACTCAGCTGTCAATAGCTAGGGCTGAAATTTTGTGAGATAAAATAA 2663  
QY 1501 TCATTTCATCTTTTGTGATTAATAAATTTTCTAAAAATGATTTTAGACTTCTCTGTAGG 1560  
Db 2664 TCATTTCATCTTTTGTGATTAATAAATTTTCTAAAAATGATTTTAGACTTCTCTGTAGG 2723  
QY 1561 GGGCGATATATCTAAATGTATATAGTACATTTTATCTAAATGATTTTCTGTAGGGGCGAT 1620  
Db 2724 GGGCGATATATCTAAATGTATATAGTACATTTTATCTAAATGATTTTCTGTAGGGGCGAT 2783  
QY 1621 ATACTAAATGTATTTAGACTTCTGTAGGGGGGATAAAAATAAATGCTAAACACTGG 1680  
Db 2784 ATACTAAATGTATTTAGACTTCTGTAGGGGGGATAAAAATAAATGCTAAACACTGG 2843  
QY 1681 GTA 1683  
Db 2844 GTA 2846

## RESULT 2

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PP-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 1683; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AACAAAGTGGTGGCCATCATCCACAGTGCCTTTGGGGCCCTCTGACGCTCAAGAACTAG 60

Db 1310 AACAAAGTGTGCGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCGAGCTCAAGACTAG 1369  
QY 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAA 120  
Db 1370 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAA 1429  
QY 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGAGCTGCTCTCAGCGCT 180  
Db 1430 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGAGCTGCTCTCAGCGCT 1489  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACGCCAGTGGATGGCACAG 240  
Db 1490 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACGCCAGTGGATGGCACAG 1549  
QY 241 TGATCGTGACAGCACCGCTGGGAAGGACACTTTGTTCTTATCATCTGGAACACCGCAGC 300  
Db 1550 TGATCGTGACAGCACCGCTGGGAAGGACACTTTGTTCTTATCATCTGGAACACCGCAGC 1609  
QY 301 CTCGCCAAATCCTTCTCTGGGATCCCGAGTGGACAGAACGAAGTGGCTTTGTAGTGACA 360  
Db 1610 CTCGCCAAATCCTTCTCTGGGATCCCGAGTGGACAGAACGAAGTGGCTTTGTAGTGACA 1669  
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGCACTTGGAAAT 420  
Db 1670 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGCACTTGGAAAT 1729  
QY 421 ACAGTCTGCAACCAAGCTCACAAACCTTGACCCCTGACTGCTCAGTCCCGTGGTCAATG 480  
Db 1730 ACAGTCTGCAACCAAGCTCACAAACCTTGACCCCTGACTGCTCAGTCCCGTGGTCAATG 1789  
QY 481 CTACCCCTGCTCCAAATACAGTGAATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Db 1790 CTACCCCTGCTCCAAATACAGTGAATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 1849  
QY 541 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Db 1850 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 1909  
QY 601 TCACAGCCCTGATTAAGTCAAGTGAATGGAAGAACAGTTACCTTGAACACTTGGATAATG 660  
Db 1910 TCACAGCCCTGATTAAGTCAAGTGAATGGAAGAACAGTTACCTTGAACACTTGGATAATG 1969  
QY 661 GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGTGAATTTCAACACTTATG 720  
Db 1970 GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGTGAATTTCAACACTTATG 2029  
QY 721 ACAGCAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAACGACGCCAGC 780  
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QY 781 GGAGAGTGATACCCGACAGAGTGGACACTGATACACTGCTGCTGAGGAGTAAACGACGCCAG 840  
Db 2090 GGAGAGTGATACCCGACAGAGTGGACACTGATACACTGCTGCTGAGGAGTAAACGACGCCAG 840  
QY 841 AATATCAATGGAATCCACCAAGACTGAAATTAATAAGGATGATGTTCAACACCAAGCAAG 900  
Db 2150 AATATCAATGGAATCCACCAAGACTGAAATTAATAAGGATGATGTTCAACACCAAGCAAG 2209  
QY 901 TGTGTTTCAGAGNAACATCTCGGAGGCTCATTTTGGCTTCTGATGTCCTCCAAATGCTC 960  
Db 2210 TGTGTTTCAGAGNAACATCTCGGAGGCTCATTTTGGCTTCTGATGTCCTCCAAATGCTC 2269  
QY 961 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGGAATTCACGGGG 1020  
Db 2270 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGGAATTCACGGGG 2329  
QY 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGACAGCTC 1080  
Db 2330 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGACAGCTC 2389  
QY 1081 ACAGTATATCATTTGAAATAGTACAGTATTTCTGATCTCAGAGACAAAGTCAATGAAT 1140

Db 2390 ACAAGTATATCATTTGCAATTAAGTACAGTATTTCTTGATCTCAGAGACAAGTTCAATGAAT 2449  
QY 1141 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGAGAGTCTTTTT 1200  
Db 2450 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGAGAGTCTTTTT 2509  
QY 1201 TGTTTAAACAGAAAACATTTACTTTTTGAAAATGGCACAGATCTTTTCATTTGCTATTTCAGG 1260  
Db 2510 TGTTTAAACAGAAAACATTTACTTTTTGAAAATGGCACAGATCTTTTCATTTGCTATTTCAGG 2569  
QY 1261 CTCTTCATAGGTGCGATCTGAAATCAGAAATATCCAAATTTGCAACATTTGCAACAGTATCTTTGTTA 1320  
Db 2570 CTCTTCATAGGTGCGATCTGAAATCAGAAATATCCAAATTTGCAACATTTGCAACAGTATCTTTGTTA 2629  
QY 1321 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCCCTGATGAAACGCTGCTCTTGTCTTCTA 1380  
Db 2630 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCCCTGATGAAACGCTGCTCTTGTCTTCTA 2689  
QY 1381 ATATTCAATTAACAGACACCATTTCTGGCAATTCACATTTTAAAAATTTATGTGGAAGTGA 1440  
Db 2690 ATATTCAATTAACAGACACCATTTCTGGCAATTCACATTTTAAAAATTTATGTGGAAGTGA 2749  
QY 1441 TAGGAGAACTGAGCTGTCATAGCTAGGCTGAAATTTTGTGCAATATAAATAAATAA 1500  
Db 2750 TAGGAGAACTGAGCTGTCATAGCTAGGCTGAAATTTTGTGCAATATAAATAAATAA 2809  
QY 1501 TCATTCATCTCTTTTTTTTGAATATAAATTTTCTAAAAATGATTTTAGACTTCTCTGTAG 1560  
Db 2810 TCATTCATCTCTTTTTTTTGAATATAAATTTTCTAAAAATGATTTTAGACTTCTCTGTAG 2869  
QY 1561 GGGCGATATCTAAATGATATATAGTACATTTATATAATGATTTTCTCTGAGGGGCGAT 1620  
Db 2870 GGGCGATATCTAAATGATATATAGTACATTTATATAATGATTTTCTCTGAGGGGCGAT 2929  
QY 1621 ATACTAAATGATTTTAGACTTCTGTTAGGGGCGATATAAATAAATAAATAAATAA 1680  
Db 2930 ATACTAAATGATTTTAGACTTCTGTTAGGGGCGATATAAATAAATAAATAAATAA 2989  
QY 1681 GTA 1683  
Db 2990 GTA 2992

## RESULT 3

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Iasek, Amy W.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 1683; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AACAAAGTGTGCGCATCATCCACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1310 AACAAAGTGTGCGCATCATCCACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1369

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Qy 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 120
Db 1370 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 1429
Qy 121 ATGCGCTCATTTGATGCTTTTGGGCGCTTTTCATCAGGAAATGAGGCTGCTCTCAGGCT 180
Db 1430 ATGCGCTCATTTGATGCTTTTGGGCGCTTTTCATCAGGAAATGAGGCTGCTCTCAGGCT 1489
Qy 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGGATGAATGGCAG 240
Db 1490 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGGATGAATGGCAG 1549
Qy 241 TGATCGTGACAGACCGTGGGAAGGACATTTGTTTCTTATCACCTGGACAGGCGAGC 300
Db 1550 TGATCGTGACAGACCGTGGGAAGGACATTTGTTTCTTATCACCTGGACAGGCGAGC 1609
Qy 301 CTCCCAATCTCTCTGGGATCCAGTGAGACAGAAAGGCTGGCTTTGTAGTGACA 360
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Qy 361 AAAACACCAAAATGCGCTACCTCCAAATCCCAAGCAATGCTTAAGTGGCACTTGGAAAT 420
Db 1670 AAAACACCAAAATGCGCTACCTCCAAATCCCAAGCAATGCTTAAGTGGCACTTGGAAAT 1729
Qy 421 ACAGTCTGGAAGCAAGCTCAGAACTTGACCTGACTGTACCTGCCGTCCGTCCTCAATG 480
Db 1730 ACAGTCTGGAAGCAAGCTCAGAACTTGACCTGACTGTACCTGCCGTCCGTCCTCAATG 1789
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Qy 541 GCCCTCTGTAGTTTATGCAAAATATTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTG 600
Db 1850 GCCCTCTGTAGTTTATGCAAAATATTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTG 1909
Qy 601 TCACAGCCCTGATTAATCAGTGAATGGAACAGCTTACCTGGAACTACTGGATAATG 660
Db 1910 TCACAGCCCTGATTAATCAGTGAATGGAACAGCTTACCTGGAACTACTGGATAATG 1969
Qy 661 GAGCAGTGTGATGCTTACTAAGGATGAGGCTGCTACTCAAGGATTTTCAAACTTATG 720
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Qy 781 GGAGAGTGATACCCAGCAGAGTGAGGAGCTGTACATACCTGGCTGATTTGAGAAATG 840
Db 2090 GGAGAGTGATACCCAGCAGAGTGAGGAGCTGTACATACCTGGCTGATTTGAGAAATG 2149
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Db 2150 AATATCAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTTCAACCAAGCAAG 2209
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Db 2210 TGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCAATGCTC 2269
Qy 961 CCATACCTGATCTCTCCACCTGGCCAAATCACGACCTGAAGCGGGAATTTACGCGGG 1020
Db 2270 CCATACCTGATCTCTCCACCTGGCCAAATCACGACCTGAAGCGGGAATTTACGCGGG 2329
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Db 2390 ACAAGTATATCAATTCGAATAGTACAGATTTCTTGATCTCAGACAGCAAGTTCAATGAAT 2449
Qy 1141 CTCTTCAAGTGAATACTGCTCTCTATCCCAAGGAGCAACTCTGAGGAAGTCTTTT 1200
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Db 2510 TGTTTAAACAGAAAAATTTTGAATGACAGATCTTTTCAATGCTATTCAGG 2569
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Db 2570 CTGTTGATAGGTCGATCTGAAATCAGAAATATCAACATTCGACAGTATCTTTGTTTA 2629
Qy 1321 TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTCTGATGAAACGCTGCTCTTGTCTTA 1380
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Qy 1501 TCATTTCATCTTTTGTGATTAATAATTTTCTAATAATGATTTTGTAGCTTCTGTAGG 1560
Db 2810 TCATTTCATCTTTTGTGATTAATAATTTTCTAATAATGATTTTGTAGCTTCTGTAGG 2869
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Qy 1681 GTA 1683
Db 2990 GTA 2992
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RESULT 4

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US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25
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Query Match 100.0%; Score 1683; DB 15; Length 3111;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 AACAAAGTGTGGCAATCATCCACAGTCCCTTTGGGCGCTCTGAGCTCAAGAACTAG 60
Db 1310 AACAAAGTGTGGCAATCATCCACAGTCCCTTTGGGCGCTCTGAGCTCAAGAACTAG 1369
Qy 61 AGGAGCTGTCCAAATCAGAGGAGTTCAGACATATGCTTCAGATCAAGTTTCAGAAC 120
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Db 1370 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC 1429  
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Db 1430 ATGGCCCTCATGTATGCTTTTGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCT 1489  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1490 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 1549  
QY 241 TGATCTGTGACAGCACCGTGGGAAAGGACACTTGTGTTCTTATCATCCTGTGACAAACGAGC 300  
Db 1550 TGATCTGTGACAGCACCGTGGGAAAGGACACTTGTGTTCTTATCATCCTGTGACAAACGAGC 1609  
QY 301 CTCCCAAAATCTCTCTGCGATCCAGTGGACAGAAAGGAGTGGCTTTGTAGTGGACA 360  
Db 1610 CTCCCAAAATCTCTCTGCGATCCAGTGGACAGAAAGGAGTGGCTTTGTAGTGGACA 1669  
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAAT 420  
Db 1670 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAAT 1729  
QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTCTCAGTCCCGTGGGTCCAAATG 480  
Db 1730 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTCTCAGTCCCGTGGGTCCAAATG 1789  
QY 481 CTACCCCTGCTCCAAATACAGTGAATCCAAACGAAACAGGACACCAAAATCCCA 540  
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QY 541 GCCCTCTGTGATGATGCAATATTCGCCAAGGAGCTCCCAATCTCAGGGCCAGTG 600  
Db 1850 GCCCTCTGTGATGATGCAATATTCGCCAAGGAGCTCCCAATCTCAGGGCCAGTG 1909  
QY 601 TCACAGCCCTGATGATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG 660  
Db 1910 TCACAGCCCTGATGATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG 1969  
QY 661 GAGCAGTGTCTGATGCTACTAAGATGACGCTGTCTACTCAAGTATTTTCAACATTAATG 720  
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Db 2030 ACAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2089  
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Db 2090 GGAGAGTGAATACCCAGCAGAGTGGAGCTGACATGATGATGATGATGATGATGATGATG 2149  
QY 841 AAATACAAATGAAATCCCAAGACCTGAAATTAATAAGGATGATGATGATGATGATGATG 900  
Db 2150 AAATACAAATGAAATCCCAAGACCTGAAATTAATAAGGATGATGATGATGATGATGATG 2209  
QY 901 TGTGTTTCAGCAAGACATCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCTCAAAATGCTC 960  
Db 2210 TGTGTTTCAGCAAGACATCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCTCAAAATGCTC 2269  
QY 961 CCATACCTGATCTCTTCCCACTCGGCAATACCCAGCCTGAGGCGGAATTCAGGGG 1020  
Db 2270 CCATACCTGATCTCTTCCCACTCGGCAATACCCAGCCTGAGGCGGAATTCAGGGG 2329  
QY 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAATGACCTGGAACAGCTC 1080  
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QY 1081 ACAAGTATATCATTCGAATAGTACAGATATTTCTGATCTCAGAGCAAGTTCATTAAT 1140  
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QY 1141 CTCTTCAAGTGAATATCTGCTCTCATCCCAAGGAGGCACTCTGAGGAGTCTTTT 1200  
Db 2450 CTCTTCAAGTGAATATCTGCTCTCATCCCAAGGAGGCACTCTGAGGAGTCTTTT 2509

QY 1201 TGTTTAAACAGAAAAATTTACTACTTTTGAATAAGCAGAGATCTTTTTCATGCTATTTCAGG 1260  
Db 2510 TGTTTAAACAGAAAAATTTACTACTTTTGAATAAGCAGAGATCTTTTTCATGCTATTTCAGG 2569  
QY 1261 CTGTGATAGGTTCGATCTGAAATAGAAATATCCAAATTCGACGAGTATCTTTGTTT 1320  
Db 2570 CTGTGATAGGTTCGATCTGAAATAGAAATATCCAAATTCGACGAGTATCTTTGTTT 2629  
QY 1321 TTCTCTCAGACACTCCGCCAGACACCTAGTCTCTGATGAAAGTCTGCTTCCTTCTCTA 1380  
Db 2630 TTCTCTCAGACACTCCGCCAGACACCTAGTCTCTGATGAAAGTCTGCTTCCTTCTCTA 2689  
QY 1381 ATATTCATATCAACAGACACCAATTCCTGGCATTCACATTTTAAATATGTTGGAAGTGA 1440  
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QY 1441 TAGGAACTGACAGCTGTCAATAGCTAGGCTGAATTTTGTGATGAAATATTAATAATAA 1500  
Db 2750 TAGGAACTGACAGCTGTCAATAGCTAGGCTGAATTTTGTGATGAAATATTAATAATAA 2809  
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QY 1561 GGGCGATATCTAAATGATATAGTACATTTTATCTAAATGTTTCTCTGAGGGCGAT 1620  
Db 2870 GGGCGATATCTAAATGATATAGTACATTTTATCTAAATGTTTCTCTGAGGGCGAT 2929  
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QY 1681 GTA 1683  
Db 2990 GTA 2992

RESULT 5  
US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PTZ32  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 1683; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAAGTGGTGGCCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGACTAG 60  
Db 1311 ACAAAGTGGTGGCCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGACTAG 1370  
QY 61 AGGAGCTGTCCAAATAGCAGAGGTTTACACATATGCTTCAGATCAAGTTCAACA 120  
Db 1371 AGGAGCTGTCCAAATAGCAGAGGTTTACACATATGCTTCAGATCAAGTTCAACA 1430  
QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTATCAGGAAATGAGAGTGTCTCTCAGCGCT 180  
Db 1431 ATGGCTCATTCATGCTTTTGGGGCCCTTTTATCAGGAAATGAGAGTGTCTCTCAGCGCT 1490

QY	181	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240	Db	2571	CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAAATTCACGAGTATCTTTGTTTA	2630
Db	1491	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1550	QY	1321	TTCTCCACAGACTCCGCCAGACACACCTAGTCTCTGATGAAACGTCTGCTCCTTGTCTTA	1380
QY	241	TGATCGTGGACAGACCGTGGGAAAGACACTTTGTTTCTATCACCTGGACACAGCAGC	300	Db	2631	TTCTCCACAGACTCCGCCAGACACACCTAGTCTCTGATGAAACGTCTGCTCCTTGTCTTA	2690
Db	1551	TGATCGTGGACAGACCGTGGGAAAGACACTTTGTTTCTATCACCTGGACACAGCAGC	1610	QY	1381	ATATTCTATCAACAGACACCAATTCCTGGCAATTCATATTTAAATAATTTATGAGAGTGA	1440
QY	301	CTCCCAAAATCTTCTCTGGATCCCAAGTGGACAGAGAGTGGCTTTGTAGTGACA	360	Db	2691	ATATTCTATCAACAGACACCAATTCCTGGCAATTCATATTTAAATAATTTATGAGAGTGA	2750
Db	1611	CTCCCAAAATCTTCTCTGGATCCCAAGTGGACAGAGAGTGGCTTTGTAGTGACA	1670	QY	1441	TAGGAGAACTGCGAGCTGCAATAGCTAGCTAGGCTAGGCTAGGCTAGGCTAGGCTAGG	1500
QY	361	AAAAACACAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGACACTTTGGAAT	420	Db	2751	TAGGAGAACTGCGAGCTGCAATAGCTAGCTAGGCTAGGCTAGGCTAGGCTAGGCTAGG	2810
Db	1671	AAAAACACAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGACACTTTGGAAT	1730	QY	1501	TCATTCTATCTTTTGTGATTATAAAATTTCTTAAATATGATTTTATAGACTTCTCTAGG	1560
QY	421	ACAGTCTGCAAGAGCTCAACAACTTGACCTGACTGCTACAGTCCCGTGGCTCCCAATG	480	Db	2811	TCATTCTATCTTTTGTGATTATAAAATTTCTTAAATATGATTTTATAGACTTCTCTAGG	2870
Db	1731	ACAGTCTGCAAGAGCTCAACAACTTGACCTGACTGCTACAGTCCCGTGGCTCCCAATG	1790	QY	1561	GGCGATATATACTAAATGTATATAGTACATTTATCTAAATGTATTTCTCTAGGAGGCGAT	1620
QY	481	CTACCTGCTCCCAATACAGTGACTTCCAAACGAAACAGACACACAGCAAAATCCCCA	540	Db	2871	GGCGATATATACTAAATGTATATAGTACATTTATCTAAATGTATTTCTCTAGGAGGCGAT	2930
Db	1791	CTACCTGCTCCCAATACAGTGACTTCCAAACGAAACAGACACACAGCAAAATCCCCA	1850	QY	1621	ATACATAATGTATTTAGACTTCTCTAGGAGGCGATATAAATAAATGCTAAACAACTGG	1680
QY	541	GCCCTCTGCTAGTTTATGCAATATTCGCAAGAGAGCTCCCAATTTCTAGGAGGCGATG	600	Db	2931	ATACATAATGTATTTAGACTTCTCTAGGAGGCGATATAAATAAATGCTAAACAACTGG	2990
Db	1851	GCCCTCTGCTAGTTTATGCAATATTCGCAAGAGAGCTCCCAATTTCTAGGAGGCGATG	1910	QY	1681	GTA 1683	
QY	601	TCACAGCCCTGATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG	660	Db	2991	GTA 2993	
Db	1911	TCACAGCCCTGATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG	1970				
QY	661	GAGCAGTCTGATGCTATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG	720				
Db	1971	GAGCAGTCTGATGCTATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATG	2030				
QY	721	ACACGAATGGTATGATACAGTAAAGTGGGCTCTGGAGAGTAAACGAGCCAGAC	780				
Db	2031	ACACGAATGGTATGATACAGTAAAGTGGGCTCTGGAGAGTAAACGAGCCAGAC	2090				
QY	781	GAGAGTGTATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATGAGAAATGATG	840				
Db	2091	GAGAGTGTATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATGAGAAATGATG	2150				
QY	841	AAATACATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACAAGCAAG	900				
Db	2151	AAATACATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACAAGCAAG	2210				
QY	901	TGTGTTTCAGCAAAATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTC	960				
Db	2211	TGTGTTTCAGCAAAATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTC	2270				
QY	961	CCATCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGGGAATTCACGGGG	1020				
Db	2271	CCATCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGGGAATTCACGGGG	2330				
QY	1021	GCAGTCTCATTAATCTGACITGGACAGCTCTGGGAGTATATGACCATGGAAACAGCTC	1080				
Db	2331	GCAGTCTCATTAATCTGACITGGACAGCTCTGGGAGTATATGACCATGGAAACAGCTC	2390				
QY	1081	ACAAGTATATCATTCGAATAAGTACAGTATCTTGTATCTCAGAGACAGATTCATGAAT	1140				
Db	2391	ACAAGTATATCATTCGAATAAGTACAGTATCTTGTATCTCAGAGACAGATTCATGAAT	2450				
QY	1141	CTCTCCAGTGAATACACTGCTCTCATCCCAAGAGAGCCAACTCTGAGGAAGTCTTTT	1200				
Db	2451	CTCTCCAGTGAATACACTGCTCTCATCCCAAGAGAGCCAACTCTGAGGAAGTCTTTT	2510				
QY	1201	TGTTTAAACCAAGAAACATTTACTTTTGAATAATGGACAGATCTTTTCACTTCTTACG	1260				
Db	2511	TGTTTAAACCAAGAAACATTTACTTTTGAATAATGGACAGATCTTTTCACTTCTTACG	2570				
QY	1261	CTGTTGATAGGTGATCTGAAATCAGAAATATCCAAATTCACGAGTATCTTTGTTTA	1320				

RESULT 6

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-055-412B-27

Query Match 99.6%; Score 1676.6; DB 14; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1679; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY	1	AACAAAGTGTGCGCATCATCCACAGTCCGCTTTGGGGCCCTCTGCAAGCTCAAGAACTAG	60	Db	1323	AACAAAGTGTGCGCATCATCCACAGTCCGCTTTGGGGCCCTCTGCAAGCTCAAGAACTAG	1382
QY	61	AGGAGCTGTCCAAATACAGAGGAGTTTACAGATATGCTTCAGATCAAGTTTCAAGACA	120	Db	1383	AGGAGCTGTCCAAATACAGAGGAGTTTACAGATATGCTTCAGATCAAGTTTCAAGACA	1442
QY	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	180	Db	1443	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	1502
QY	181	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240	Db	1503	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1562

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QY 241 TGATCGTGGACAGCAGCGGTGGGAAAGGACATTTTCTTATCACTGGACAAAGCGCAGC 300
Db |||
QY 1563 TGATCGTGGACAGCAGCGGTGGGAAAGGACATTTTCTTATCACTGGACAAAGCGCAGC 1622
Db |||
QY 301 CTCCCCAAATCTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA 360
Db |||
QY 1623 CTCCCCAAATCTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA 1682
Db |||
QY 361 AAAACACAAATAGCCCTACCTCCAAATCCAGGCAATGCTAAAGGTGGCACTTGGAAAT 420
Db |||
QY 1683 AAAACACAAATAGCCCTACCTCCAAATCCAGGCAATGCTAAAGGTGGCACTTGGAAAT 1742
Db |||
QY 421 ACAGTCTGCAAGCAGCTCAAAACCTTGAACCTTGACCTGACCTGCGTCCGTCCTCAATG 480
Db |||
QY 1743 ACAGTCTGCAAGCAGCTCAAAACCTTGAACCTTGACCTGACCTGCGTCCGTCCTCAATG 1802
Db |||
QY 481 CTACCCCTGCCCTCCAAATACAGTGAATCGGATCCCAAAACGAAAGGACACCAAGCAAAATCCCCA 1862
Db |||
QY 1803 CTACCCCTGCCCTCCAAATACAGTGAATCGGATCCCAAAACGAAAGGACACCAAGCAAAATCCCCA 1862
Db |||
QY 541 GCCCTCTGGTAGTTTATGCAATATTCGCCAAGGAGCTCCCAATCTCAGGSCCAGTG 600
Db |||
QY 1863 GCCCTCTGGTAGTTTATGCAATATTCGCCAAGGAGCTCCCAATCTCAGGSCCAGTG 600
Db |||
QY 601 TCACAGCCCTGATGATGATGAGTGAATCGGATCCCAAAACGAAAGGACACCAAGCAAAATCCCCA 1922
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QY 1923 TCACAGCCCTGATGATGATGAGTGAATCGGATCCCAAAACGAAAGGACACCAAGCAAAATCCCCA 1982
Db |||
QY 661 GAGCAGTGTCTGATGCTTACTTAAGGATGACGCTGCTACTCAAGGTATTTCACAACTTATG 720
Db |||
QY 1983 GAGCAGTGTCTGATGCTTACTTAAGGATGACGCTGCTACTCAAGGTATTTCACAACTTATG 2042
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QY 721 ACAGAAATGGTAGATACAGTGTAAAGTGGGCTCTGGGAGGATTAAGCGAGCCAGAC 780
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QY 2043 ACAGAAATGGTAGATACAGTGTAAAGTGGGCTCTGGGAGGATTAAGCGAGCCAGAC 2102
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QY 781 GGAGAGTGATACCCAGCAGATGGAGCTGTACATACCTGGCTGGATTTGAGAAATGATG 840
Db |||
QY 2103 GGAGAGTGATACCCAGCAGATGGAGCTGTACATACCTGGCTGGATTTGAGAAATGATG 2162
Db |||
QY 841 AAATACAATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACAACAGCAAG 900
Db |||
QY 2163 AAATACAATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACAACAGCAAG 2222
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QY 901 TGTGTTTCAGCAGAAACATCTCTGGGAGGCTCATTTGTGCTTCTGATGTCCTCAAAATGCTC 960
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QY 2223 TGTGTTTCAGCAGAAACATCTCTGGGAGGCTCATTTGTGCTTCTGATGTCCTCAAAATGCTC 2282
Db |||
QY 961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 1020
Db |||
QY 2283 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 2342
Db |||
QY 1021 GCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGATGATTTGACCATGGAAACAGCTC 1080
Db |||
QY 2343 GCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGATGATTTGACCATGGAAACAGCTC 2402
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QY 1081 ACAAGTATATCATTCGAATAGTACAAAGTATCTTGTATCTCAGACAGAAAGTTCATGAT 1140
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QY 2403 ACAAGTATATCATTCGAATAGTACAAAGTATCTTGTATCTCAGACAGAAAGTTCATGAT 2462
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QY 1141 CTCTTCAGTGAATACCTGCTCTCATTCGCAAGGAGGCAATCTCTGAGGAAAGTCTTTT 1200
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QY 2463 CTCTTCAGTGAATACCTGCTCTCATTCGCAAGGAGGCAATCTCTGAGGAAAGTCTTTT 2522
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QY 1201 TGTTTAAACCAAGAAACATTAATCTTTGAAATGSCACAGATCTTTTCAATGCTATTCAAG 1260
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QY 2523 TGTTTAAACCAAGAAACATTAATCTTTGAAATGSCACAGATCTTTTCAATGCTATTCAAG 2582
Db |||
QY 1261 CTGTTGATAGGTGATCTGAAATTCAGAAATATCCAAATTTGACAGAGTATCTTTGTTTA 1320
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QY 2583 CTGTTGATAGGTGATCTGAAATTCAGAAATATCCAAATTTGACAGAGTATCTTTGTTTA 2642
Db |||
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QY 1321 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTGATGAAACGCTGCTGCTTGTCTTA 1380
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QY 2643 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTGATGAAACGCTGCTGCTTGTCTTA 2702
Db |||
QY 1381 ATATTTCATATCAACAGACCAATTCCTGGCATTCACATTTTAAAAATTTATGTGGAAGTGA 1440
Db |||
QY 2703 ATATTTCATATCAACAGACCAATTCCTGGCATTCACATTTTAAAAATTTATGTGGAAGTGA 2762
Db |||
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTCTAGATATAAATAAATAA 1500
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QY 2763 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTCTAGATATAAATAAATAA 2822
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QY 1501 TCATTTCATCTCTTTTGTGATTATAAATTTTCTAAATGATTTTATAGACTTCCCTGATG 1560
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QY 2823 TCATTTCATCTCTTTTGTGATTATAAATTTTCTAAATGATTTTATAGACTTCCCTGATG 2882
Db |||
QY 1561 GGGCGATATATAAATGATATAGTATATTAATCTAAATGATTTTCTAGGAGGCGGAT 1620
Db |||
QY 2883 GGGCGATATATAAATGATATAGTATATTAATCTAAATGATTTTCTAGGAGGCGGAT 2942
Db |||
QY 1621 ATACTAAATGATTTTATAGACTTCTCTAGGAGGCGGATATAAATAAATAAATAAATAA 1680
Db |||
QY 2943 ATACTAAATGATTTTATAGACTTCTCTAGGAGGCGGATATAAATAAATAAATAAATAA 3002
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QY 1681 GTA 1683
Db |||
QY 3003 GGA 3005
Db |||

RESULT 7
US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US2002076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match 99.3%; Score 1671; DB 9; Length 3311;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGTGCATCATCCACACAGTCGCTTTGGGCGCTCTGCAGCTCAAGAACTAG 60
Db 1628 AACAAAGTGTGCATCATCCACACAGTCGCTTTGGGCGCTCTGCAGCTCAAGAACTAG 1687
QY 61 AGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 120
Db 1688 AGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 1747
QY 121 ATGGCTCATTTGATGCTTTTGGGCGCTTTTCATCAGAAATGGAGCTGCTCTCAGCGCT 180
Db |||
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1748 ATGGCCTCAATTGATGCTTTTGGGGCCCTTTTCAACAGGAATGAGCTGTCTCTCAGCGCT 1807 Db  
181 CCATCCAGCTTGAGTAAGGATTAACCCCTCCAGAACAGCAGCTGGATGAATGGCAG 240 Qy  
1808 CCATCCAGCTTGAGTAAGGATTAACCCCTCCAGAACAGCAGCTGGATGAATGGCAG 1867 Db  
241 TGATCGTGGACAGACCGCTGGGAAAGGACATTTTGTCTTATACACCTGGACAGCGAGC 300 Qy  
1868 TGATCGTGGACAGACCGCTGGGAAAGGACATTTTGTCTTATACACCTGGACAGCGAGC 1927 Db  
301 TCCTCCAAATCTTCTCTGGATCCAGTGGACAGCAAGCTGGCTTTGTAGTGACA 360 Qy  
1928 TCCTCCAAATCTTCTCTGGATCCAGTGGACAGCAAGCTGGCTTTGTAGTGACA 1987 Db  
361 AAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT 420 Qy  
1988 AAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT 2047 Db  
421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGATGTACAGTCCCGTGGCTCAATG 480 Qy  
2048 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGATGTACAGTCCCGTGGCTCAATG 2107 Db  
481 CTACCTGCTGCTCAATTAAGTCACTTCCAAACAGCAAGCAAGCAAGCAAGCAAGCAAG 540 Qy  
2108 CTACCTGCTGCTCAATTAAGTCACTTCCAAACAGCAAGCAAGCAAGCAAGCAAGCAAG 2167 Db  
541 GCCTCTGCTGATTTATGCAATATTCGCAAGAGGCTCCCAATTTCTCAGGGCCAGTG 600 Qy  
2168 GCCTCTGCTGATTTATGCAATATTCGCAAGAGGCTCCCAATTTCTCAGGGCCAGTG 2227 Db  
601 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTACCTTGGAACTACTGGTAATG 660 Qy  
2228 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTACCTTGGAACTACTGGTAATG 2287 Db  
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2288 GAGCAGTCTGATGCTACTAAGGATGACGCTGTCTACTCAAGTATTTTCAACACTTATG 2347 Db  
721 ACAGGAATGTAGATACAGTGAATGGAATAACAGTACCTTGGAACTACTGGTAATG 780 Qy  
2348 ACAGGAATGTAGATACAGTGAATGGAATAACAGTACCTTGGAACTACTGGTAATG 2407 Db  
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2408 GGAGAGTGATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGATTCAGATCATG 2467 Db  
841 AAATACAAATGGAATCCACCAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 900 Qy  
2468 AAATACAAATGGAATCCACCAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 2527 Db  
901 TGTGTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCTTCTGATGCCAAATGCTC 960 Qy  
2528 TGTGTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCTTCTGATGCCAAATGCTC 2587 Db  
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2588 CCATACCTGATCTCTTCCCACTGGCCAAATCACCAGCTGAGGCGGAATTCACGGG 2647 Db  
1021 CGAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGATTAATGACCATGGAACAGCTC 1080 Qy  
2648 CGAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGATTAATGACCATGGAACAGCTC 2707 Db  
1081 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTGATCTCAGACAAAGTTCAATGAT 1140 Qy  
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2768 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTT 2827 Db  
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2828 TGTTTAAACCAAGAAACATTTCTTTGAAATGGCACAGATCTTTTCAATGCTATTCAGG 2887 Db

1261 CTGTTGATAAGTGCATCTGAAATCAGAAATATCCAAATTCAGAAATTCAGGATCTTTGTTA 1320 Qy  
2888 CTGTTGATAAGTGCATCTGAAATCAGAAATATCCAAATTCAGAAATTCAGGATCTTTGTTA 2947 Db  
1321 TTCTCCACAGACTCCCGCAGAGACACCTAGTCTGATGAAACGCTCTGCTCTCTTGTCTTA 1380 Qy  
2948 TTCTCCACAGACTCCCGCAGAGACACCTAGTCTGATGAAACGCTCTGCTCTCTTGTCTTA 3007 Db  
1381 ATATTCTATATCAACAGACACCAATTCCTGGCAATTCACATTTTAAAAATATGTGGAAGTGA 1440 Qy  
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3128 TCATTCTATCTTTTGTGATGATGAAATTTTCTAAATGATTTTGTAGACTTCTGTAGG 3186 Db  
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3187 GGGCGATATCTAAATGATATAGTACATTTTATCTAAATGATTTTGTAGGCGGCGAT 3246 Db  
1621 ATACTAAATGATTTTGTAGACTTCTGTAGGCGGCGATGAAATGCTTAAACAACTGG 1680 Qy  
3247 ATACTAAATGATTTTGTAGACTTCTGTAGGCGGCGATGAAATGCTTAAACAACTGG 3306 Db  
1681 GTA 1683 Qy  
3307 GTA 3309 Db

RESULT 8  
US-09-833-263-1056  
; Sequence 1056, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-833-263-1056

Query Match 99.3%; Score 1671; DB 9; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
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QY 61 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 120  
Db 1688 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 1747  
QY 121 ATGGGCTCATGATGCTTTTGGGGCCCTTTTATCAGGAATGAGCTGTCTCTCAGCGCT 180  
Db 1748 ATGGGCTCATGATGCTTTTGGGGCCCTTTTATCAGGAATGAGCTGTCTCTCAGCGCT 1807  
QY 181 CCATCCAGCTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCAG 240

Db 1808 CCATCCAGCTTGAGAGTAAAGGATTTAAACCTCCAGAACAGCCAGTGGATGAATGCGACAG 1867  
QY 241 TGATCGTGGACAGCACCGTGGAAAGGACACTTTGTTCTTATACCTTGGACCAAGCGAGC 300  
Db 1868 TGATCGTGGACAGCACCGTGGAAAGGACACTTTGTTCTTATACCTTGGACCAAGCGAGC 1927  
QY 301 CTCCCAATCCTTCTCTGGGATCCAGTGACAGAAAGGTTGGCTTTGTAGTGGACA 360  
Db 1928 CTCCCAATCCTTCTCTGGGATCCAGTGACAGAAAGGTTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAAATGSCCTTACCTCCAAATCCAGGCAATGCTTAAGTGGCACTTGGAAAT 420  
Db 1988 AAAACACCAAAATGSCCTTACCTCCAAATCCAGGCAATGCTTAAGTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAACCTTGAACCTTGAACCTTGAACCTTGAACCTTGAACCT 2047  
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QY 541 GCCTCTGGTGAATTTATGCAAAATTTCCCAAGAGAGCTTCCCAATTTCTCAGGCGCAGTG 600  
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Db 2228 TCACGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2287  
QY 661 GAGCAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 720  
Db 2288 GAGCAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2347  
QY 721 ACACGAATCGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 780  
Db 2348 ACACGAATCGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2407  
QY 781 GGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840  
Db 2408 GGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2467  
QY 841 AAATCAATGGAATCCACAGACCTGAAATTAATTAAGGATGATGTTCAACACCAAGCAAG 900  
Db 2468 AAATCAATGGAATCCACAGACCTGAAATTAATTAAGGATGATGTTCAACACCAAGCAAG 2527  
QY 901 TGTGTTTCAGCAGAACTCTCGGGAGGCTCATTTTGTGGCTTCTGATGCTCCAAATGCTC 960  
Db 2528 TGTGTTTCAGCAGAACTCTCGGGAGGCTCATTTTGTGGCTTCTGATGCTCCAAATGCTC 2587  
QY 961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTCAAGCGCGGAATTTCAAGGG 1020  
Db 2588 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTCAAGCGCGGAATTTCAAGGG 2647  
QY 1021 GCAGTCTCAATTAATCTGACCTTGGACAGCTCTCGGGATGATTAATGACCATGGAACAGCTC 1080  
Db 2648 GCAGTCTCAATTAATCTGACCTTGGACAGCTCTCGGGATGATTAATGACCATGGAACAGCTC 2707  
QY 1081 ACAAGTATATCATCGAATTAAGTACAGTATCTTGATCTCAGAGCAAGGTTCAATGAAT 1140  
Db 2708 ACAAGTATATCATCGAATTAAGTACAGTATCTTGATCTCAGAGCAAGGTTCAATGAAT 2767  
QY 1141 CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAGTCTTTT 1200  
Db 2768 CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAGTCTTTT 2827  
QY 1201 TGTTTAAACAGAAAACATTACTTTTGAATATGGCAAGATCTTTTTCATTGCTATTTCAGG 1260  
Db 2828 TGTTTAAACAGAAAACATTACTTTTGAATATGGCAAGATCTTTTTCATTGCTATTTCAGG 2887  
QY 1261 CTCTTGAATAGGTCGATCTCAATATCAGAAATATCCAAATTCAGCAGTATCTTTGTTTA 1320

Db 2888 CTGTTGTAAGTTCGATCTGAATCAGAAATATCCAACTTCCAGAGTATCTTTGTTTA 2947  
QY 1321 TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTCTGATGAAACGTCCTGCTCCTTGTCTTA 1380  
Db 2948 TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTCTGATGAAACGTCCTGCTCCTTGTCTTA 3007  
QY 1381 ATATTATATCAACAGACACCACTTCTGCTGCAATTTAAAAATTTATGGAAGTGA 1440  
Db 3008 ATATTATATCAACAGACACCACTTCTGCTGCAATTTAAAAATTTATGGAAGTGA 3067  
QY 1441 TAGGAGAACTGCAGCTCTCAATAGCCTAGGCTGAATTTTGTGATGATAAATAAATAA 1500  
Db 3068 TAGGAGAACTGCAGCTCTCAATAGCCTAGGCTGAATTTTGTGATGATAAATAAATAA 3127  
QY 1501 TCATTTCATCTTTTCTTTTGAATTAATAATTTCTTAAATGATTTTATGACTTCTCTAGG 1560  
Db 3128 TCATTTCATCTTTTCTTTTGAATTAATAATTTCTTAAATGATTTTATGACTTCTCTAGG 3186  
QY 1561 GGCGGATATCTAAATGATATATATGATATCTAAATGATTTCTCTGAGGGCGAT 1620  
Db 3187 GGCGGATATCTAAATGATATATGATATCTAAATGATTTCTCTGAGGGCGAT 3246  
QY 1621 ATACTAAATGATTTTATGACTTCTGAGGGCGATTAATAAATAAATAAATAAATAA 1680  
Db 3247 ATACTAAATGATTTTATGACTTCTGAGGGCGATTAATAAATAAATAAATAAATAA 3306  
QY 1681 GTA 1683  
Db 3307 GTA 3309

## RESULT 9

US-10-025-380-1056  
; Sequence 1056, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 99.3%; Score 1671; DB 13; Length 3311;  
Best Local Similarity 99.9%; Pred.No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
QY 1 AACAAAGTGGTCCATCATCCACAGTGGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTCCATCATCCACAGTGGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1687

QY	61	AGGAGCTGTGTCATCAAGTGAAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC	120	Db	2768	CTCTTCAAGTGAATCTACTGCTCTCATCCAAAGGAGCAACTCTGAGGAAGTCTTTT	2827
Db	1688	AGGAGCTGTGTCATCAAGTGAAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC	1747	QY	1201	TGTTTAAACAGAGAAACATTACTTTTGAATAATGCGACAGATCTTTTTCATTGCTATTCAGG	1260
QY	121	ATGCGCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGAGGCTGCTCTCAGGGCT	180	Db	2828	TGTTTAAACAGAGAAACATTACTTTTGAATAATGCGACAGATCTTTTTCATTGCTATTCAGG	2887
Db	1748	ATGCGCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGAGGCTGCTCTCAGGGCT	1807	QY	1261	CTGTTGATAAGGTCGATCTGAAATCAGAAATATCAACATTGCGAGGATCTTTTGTGTTA	1320
QY	181	CCATCCAGCTTGAGGTAAGGATTAACCTTCCAGAACAGCAGTGGATGAATGGCAG	240	Db	2888	CTGTTGATAAGGTCGATCTGAAATCAGAAATATCAACATTGCGAGGATCTTTTGTGTTA	2947
Db	1808	CCATCCAGCTTGAGGTAAGGATTAACCTTCCAGAACAGCAGTGGATGAATGGCAG	1867	QY	1321	TTCTTCCACAGACTCCGCCAGAGACACTAGTCTGATGAACGCTCTCTCTGCTCCTA	1380
QY	241	TGATCGTGGACAGCACCGTGGGAAAGGACATTTTGTCTTATACCTTGGAGGAC	300	Db	2948	TTCTTCCACAGACTCCGCCAGAGACACTAGTCTGATGAACGCTCTCTCTGCTCCTA	3007
Db	1868	TGATCGTGGACAGCACCGTGGGAAAGGACATTTTGTCTTATACCTTGGAGGAC	1927	QY	1381	ATATTCATATCAACAGCACCAATCTCTGGCAATTCACATTTTAAAAATATGTGGAAGTGA	1440
QY	301	CTCCCCAAATCTTCTCTGGGATCCAGTGGACAGCAAGGCTGCTTTGTAGTGGACA	360	Db	3008	ATATTCATATCAACAGCACCAATCTCTGGCAATTCACATTTTAAAAATATGTGGAAGTGA	3067
Db	1928	CTCCCCAAATCTTCTCTGGGATCCAGTGGGACAGCAAGGCTGCTTTGTAGTGGACA	1987	QY	1441	TAGGAGAACTGCAGCTGCAATAGCTAGGCTGAAATTTTGTCTAGATAAAATAAA	1500
QY	361	AAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAGTGGCACTTGGAAAT	420	Db	3068	TAGGAGAACTGCAGCTGCAATAGCTAGGCTGAAATTTTGTCTAGATAAAATAAA	3127
Db	1988	AAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAGTGGCACTTGGAAAT	2047	QY	1501	TCATTATCTCTTTTGTGATTAATAATTTTCTAAATGTATTTAGACTTCCTGTAGG	1560
QY	421	ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGATCTGACCTCCGCTGCTCAATG	480	Db	3128	TCATTATCTCTTTTGTGATTAATAATTTTCTAAATGTATTTAGACTTCCTGTAGG	3186
Db	2048	ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGATCTGACCTCCGCTGCTCAATG	2107	QY	1561	GGGCGATATACATAATGTATATAGTACATTTTACTAAATGTATTTAGACTTCCTGTAGG	1620
QY	481	CTACCTGCTGCTCAATACAGTGACTTCCAAACAGCAAGGACACAGCAATTTCCCA	540	Db	3187	GGGCGATATACATAATGTATATAGTACATTTTACTAAATGTATTTAGACTTCCTGTAGG	3246
Db	2108	CTACCTGCTGCTCAATACAGTGACTTCCAAACAGCAAGGACACAGCAATTTCCCA	2167	QY	1621	ATATAAATGTATTTTGTAGACTTCCTGTAGGCGGATAAATAAATGTCTAAACACTGG	1680
QY	541	GCCTCTGCTGCTGCTCAATACAGTGACTTCCAAACAGCAAGGACACAGCAATTTCC	600	Db	3247	ATATAAATGTATTTTGTAGACTTCCTGTAGGCGGATAAATAAATGTCTAAACACTGG	3306
Db	2168	GCCTCTGCTGCTGCTCAATACAGTGACTTCCAAACAGCAAGGACACAGCAATTTCC	2227	QY	1681	GTA 1683	
QY	601	TCACAGCCCTGATTTGAATCAGTGAATGGAATAAAGTGGAGTGTAAAGTGTATTTATG	660	Db	3307	GTA 3309	
Db	2228	TCACAGCCCTGATTTGAATCAGTGAATGGAATAAAGTGGAGTGTAAAGTGTATTTATG	2287				
QY	661	GAGAGTGTGCTGATCTTAAAGTGAAGTGAAGTGTCTACTCAAGTATTTTCAACACTTATG	720				
Db	2288	GAGAGTGTGCTGATCTTAAAGTGAAGTGAAGTGTCTACTCAAGTATTTTCAACACTTATG	2347				
QY	721	ACAGATGTGTAGTACAGTGTAAAGTGGGGCTCTGGAGGAGTGTAAAGTGTATTTATG	780				
Db	2348	ACAGATGTGTAGTACAGTGTAAAGTGGGGCTCTGGAGGAGTGTAAAGTGTATTTATG	2407				
QY	781	GGAGAGTGATACCCAGCAGAGTGGAGCAGTGTACATCTCTGGGCTGTGGAGTGTATG	840				
Db	2408	GGAGAGTGATACCCAGCAGAGTGGAGCAGTGTACATCTCTGGGCTGTGGAGTGTATG	2467				
QY	841	AAATACATGGAATCCACAGAGCTGAAATTAATAGGATGATGTTCAACACAGCAAG	900				
Db	2468	AAATACATGGAATCCACAGAGCTGAAATTAATAGGATGATGTTCAACACAGCAAG	2527				
QY	901	TGTGTTTTCAGCAGAACATCTCTGGAGGCTCATTTGTGGCTTCTGATCTCCCAATGCTC	960				
Db	2528	TGTGTTTTCAGCAGAACATCTCTGGAGGCTCATTTGTGGCTTCTGATCTCCCAATGCTC	2587				
QY	961	CCATACCTGATCTCTTCCACCTGCGCAATACCGAGCTGAAGCGGAAATTCACGGGG	1020				
Db	2588	CCATACCTGATCTCTTCCACCTGCGCAATACCGAGCTGAAGCGGAAATTCACGGGG	2647				
QY	1021	GCAGTCTCATTAATCTGAGTGTGACAGCTCTCTGGGGATGATTTATGACCATGGAACGCTC	1080				
Db	2648	GCAGTCTCATTAATCTGAGTGTGACAGCTCTCTGGGGATGATTTATGACCATGGAACGCTC	2707				
QY	1081	ACAAGTATATCATTCGAATAAGTACAGATTTTGTGATCTCAGACAAAGTTCATGAT	1140				
Db	2708	ACAAGTATATCATTCGAATAAGTACAGATTTTGTGATCTCAGACAAAGTTCATGAT	2767				
QY	1141	CTCTTCAAGTGAATACTGCTCTCTCATCCCAAGGAAGCCACTCTGAGGAAGTCTTTT	1200				

RESULT 10

US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY	1	AACAAAGTGGTCCCATCATCCACAGTCGCTTTTGGGGCCCTCTGACGCTCAAGAACTAG	60
Db	1628	AACAAAGTGGTCCCATCATCCACAGTCGCTTTTGGGGCCCTCTGACGCTCAAGAACTAG	1687
QY	61	AGGAGCTGTGTCATCAAGTGAAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC	120
Db	1688	AGGAGCTGTGTCATCAAGTGAAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC	1747
QY	121	ATGCGCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGAGGCTGCTCTCAGGGCT	180



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Db 1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCAACAGGAATGGAGCTGTCTCTCAGCGCT 1807
Qy 181 CCATCCAGCTTTGAGAGTAAGGGAATTAACCTCCAGAACAGCAGCTGGATGAATGCGACAG 240
Db 1808 CCATCCAGCTTTGAGAGTAAGGGAATTAACCTCCAGAACAGCAGCTGGATGAATGCGACAG 1867
Qy 241 TGATCGTGGACAGACCGTGGGAAGGACACTTTTGTCTTATCACTCGGACAAAGCGAGC 300
Db 1868 TGATCGTGGACAGACCGTGGGAAGGACACTTTTGTCTTATCACTCGGACAAAGCGAGC 1927
Qy 301 CTCCTCCAAATCCTTCTCTGGGATCCAGTGGACAGAGAGGAGTGGCTTTGTAGTGACA 360
Db 1928 CTCCTCCAAATCCTTCTCTGGGATCCAGTGGACAGAGAGGAGTGGCTTTGTAGTGACA 1987
Qy 361 AAAACACAAATGGCCCTACCTCCAAATCCAGGCAATTCCTAAGGTTGGCACTTGGAAAT 420
Db 1988 AAAACACAAATGGCCCTACCTCCAAATCCAGGCAATTCCTAAGGTTGGCACTTGGAAAT 2047
Qy 421 ACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACTCCCGTGGCTCCCAATG 480
Db 2048 ACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACTCCCGTGGCTCCCAATG 2107
Qy 481 CTACCTCGCTCCAAATTAACAGTCACTTCCAAACGAAACAGGACACAGCAAAATCCCCA 540
Db 2108 CTACCTCGCTCCAAATTAACAGTCACTTCCAAACGAAACAGGACACAGCAAAATCCCCA 2167
Qy 541 GGCCTCTGAGTATTGCAAAATATTTCGCAAGGAGCTCCCAATTCCTCAGGCGCAGTG 600
Db 2168 GGCCTCTGAGTATTGCAAAATATTTCGCAAGGAGCTCCCAATTCCTCAGGCGCAGTG 2227
Qy 601 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGATAATG 660
Db 2228 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGATAATG 2287
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Db 2288 GAGCAGGCTGCTGATGCTACTAAGGATGAGGCTGTCTACTCAAGGTAATTTCAAACTATG 2347
Qy 721 ACAGAAATGGTATACAGTGTAAAGTGTGCGGGCTCTGGGAGGATTAACGAGCAGAC 2407
Db 2348 ACAGAAATGGTATACAGTGTAAAGTGTGCGGGCTCTGGGAGGATTAACGAGCAGAC 2407
Qy 791 GGAGAGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGGATTGAGATGATG 840
Db 2408 GGAGAGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGGATTGAGATGATG 2467
Qy 841 AAATACAAATGAATCCCAAGACCTGAAATTAATAAGGATGATTTCAACACAGCAAG 900
Db 2468 AAATACAAATGAATCCCAAGACCTGAAATTAATAAGGATGATTTCAACACAGCAAG 2527
Qy 901 TGTGTTTCAGCAGAACATCTCTCGGGAGGCTCATTTGTGCTTCTCATGTCCTCAATGCTC 960
Db 2528 TGTGTTTCAGCAGAACATCTCTCGGGAGGCTCATTTGTGCTTCTCATGTCCTCAATGCTC 960
Qy 961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACCGGG 1020
Db 2588 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACCGGG 2647
Qy 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGAACAGCTC 1080
Db 2648 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGAACAGCTC 2707
Qy 1081 ACAAGTATATCATTCGAATAAGTACAAGTATCTTGTATCTCAGAGCAAGTTCAATGAAT 1140
Db 2708 ACAAGTATATCATTCGAATAAGTACAAGTATCTTGTATCTCAGAGCAAGTTCAATGAAT 2767
Qy 1141 CTCTTCAAGTGAATATCTGCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTT 1200
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Qy 1201 TGTTTAAACACAGAAACATTTACTTTGAAATGGGACAGATCTTTTCAITGCTATTTCAGG 1260
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Db 2828 TGTTTAAACACAGAAACATTTACTTTTGAATAATGGCACAGATCTTTTCAITGCTATTTCAGG 2887
Qy 1261 CTGTGTGATAAGCTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTGTTTA 1320
Db 2888 CTGTGTGATAAGCTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTGTTTA 2947
Qy 1321 TTCTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTCTGCTCTTGTGCTTA 1380
Db 2948 TTCTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTCTGCTCTTGTGCTTA 3007
Qy 1381 ATATTTCATATCAACAGCAGACCAATTCCTGGCAATTCACATTTTAAATAATATGFGAAGTGA 1440
Db 3008 ATATTTCATATCAACAGCAGACCAATTCCTGGCAATTCACATTTTAAATAATATGFGAAGTGA 3067
Qy 1441 TAGGAGAACTCGCAGCTGTCAATAGCCTTAGGCGTGAATTTTGTGAGATAATAATAATAA 1500
Db 3068 TAGGAGAACTCGCAGCTGTCAATAGCCTTAGGCGTGAATTTTGTGAGATAATAATAATAA 3127
Qy 1501 TCATTTCATCTTTTGTGATTAATAAATTTCTAAATGTAATTTTAGACTTCTCTGTAGG 1560
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Qy 1561 GGGCGATATACATAAATGTATATAGTACATTTTATACTAAATGTATTCCTGTAGGGCGCAT 1620
Db 3187 GGGCGATATACATAAATGTATATAGTACATTTTATACTAAATGTATTCCTGTAGGGCGCAT 3246
Qy 1621 ATACTAAATGTATTTTAGACTTCTGTAGGGCGCATTAATAATAATAATAATAATAATAA 1680
Db 3247 ATACTAAATGTATTTTAGACTTCTGTAGGGCGCATTAATAATAATAATAATAATAATAA 3306
Qy 1681 GTA 1683
Db 3307 GTA 3309

RESULT 11
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; PRIOR FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

Query Match 99.3%; Score 1671; DB 15; Length 3311;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 AACAAAGTGTGGCCTCATCCACACAGTTCGCTTTGGGGCCCTCTGACGCTCAAGAACTAG 60
Db 1628 AACAAAGTGTGGCCTCATCCACACAGTTCGCTTTGGGGCCCTCTGACGCTCAAGAACTAG 1687
Qy 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGACA 120
Db 1688 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGACA 1747
Qy 121 ATGGCTCTATTGATGCTTTTGGGGCCCTTTTATCAGGAATGAGAGTGTCTCTCAGCGCT 180
Db 1748 ATGGCTCTATTGATGCTTTTGGGGCCCTTTTATCAGGAATGAGAGTGTCTCTCAGCGCT 1807
Qy 181 CCATCCAGCTTTGAGAGTAAGGGAATTAACCTCCAGAACAGCAGCTGGATGAATGCGACAG 240
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Db 1808 CCATCCAGCTTGAGAGTAAGGGAATTAACTCCAGAAACAGCAGTGGATGAATGGCACAG 1867  
Qy 241 TGAATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACTCGACAAAGCAGC 300  
Db 1868 TGATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACTCGACAAAGCAGC 1927  
Qy 301 CTCGCCAAATCTTCTCTGGGATCCAGTGACAGAAAGGTTGGCTTTGTAGTGACA 360  
Db 1928 CTCGCCAAATCTTCTCTGGGATCCAGTGACAGAAAGGTTGGCTTTGTAGTGACA 1987  
Qy 361 AAAACACAAATAGGCTTACCTCCAAATCCAGGCAATGCTAAAGTTGGCACTTGGAAAT 420  
Db 1988 AAAACACAAATAGGCTTACCTCCAAATCCAGGCAATGCTAAAGTTGGCACTTGGAAAT 2047  
Qy 421 ACAGTCTCAAGCAAGCTCAAAAACCTTGACCCCTGACTGTCAAGTCCCGTGGTCCAAATG 480  
Db 2048 ACAGTCTCAAGCAAGCTCAAAAACCTTGACCCCTGACTGTCAAGTCCCGTGGTCCAAATG 2107  
Qy 481 CTACCTCGCTCCAAATACAGTGACTTCCAAAACGAACAGGACACAGCAAAATCCCA 540  
Db 2108 CTACCTCGCTCCAAATACAGTGACTTCCAAAACGAACAGGACACAGCAAAATCCCA 2167  
Qy 541 GGCCTCTGTAGTTTATGCAATATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Db 2168 GGCCTCTGTAGTTTATGCAATATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 2227  
Qy 601 TCACAGCCCTGATTTGAATCAGTGAATGGAAGAACAGTTTACCTTGGAACTTCTGGTAATG 660  
Db 2228 TCACAGCCCTGATTTGAATCAGTGAATGGAAGAACAGTTTACCTTGGAACTTCTGGTAATG 2287  
Qy 661 GAGCAGGTGCTGATCTACTAAGGATGAGGTGTCTACTCAAGGTATTTTCAACACTTATG 720  
Db 2288 GAGCAGGTGCTGATCTACTAAGGATGAGGTGTCTACTCAAGGTATTTTCAACACTTATG 2347  
Qy 721 ACAGGAATGCTAGTACAGTGAATGAGTGGGCTCTGGAGGAGTTTAAAGCAGCCAGC 780  
Db 2348 ACAGGAATGCTAGTACAGTGAATGAGTGGGCTCTGGAGGAGTTTAAAGCAGCCAGC 2407  
Qy 781 GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGCTGGATTTGGAATGATG 840  
Db 2408 GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGCTGGATTTGGAATGATG 2467  
Qy 841 AAATACAAATGGAATCCCAAGACCTGAAATTAAGGATGATTTCAACACAAAGCAAG 900  
Db 2468 AAATACAAATGGAATCCCAAGACCTGAAATTAAGGATGATTTCAACACAAAGCAAG 2527  
Qy 901 TGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTTGGTCTCTGATGTCCCAATGCTC 960  
Db 2528 TGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTTGGTCTCTGATGTCCCAATGCTC 2587  
Qy 961 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAAGGGAATTTACCGGG 1020  
Db 2588 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAAGGGAATTTACCGGG 2647  
Qy 1021 GCAGTCTCAATTAATCTGAGCTTGGACAGCTCTGGGGATGATTTAGCAGTGAAGCTC 1080  
Db 2648 GCAGTCTCAATTAATCTGAGCTTGGACAGCTCTGGGGATGATTTAGCAGTGAAGCTC 2707  
Qy 1081 ACAAGTATATCAATTCGAATAGTACAGTATTTTGTATCTCAGAGACAAAGTTCAATGAT 1140  
Db 2708 ACAAGTATATCAATTCGAATAGTACAGTATTTTGTATCTCAGAGACAAAGTTCAATGAT 2767  
Qy 1141 CTCCTCAAGTGAATTAATCTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 1200  
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Qy 1201 TGTTTAAACCAAGAAACATTAATTTGAAATGGCAGACATCTTTTCAATGCTATTCAGG 1260  
Db 2828 TGTTTAAACCAAGAAACATTAATTTGAAATGGCAGACATCTTTTCAATGCTATTCAGG 2887  
Qy 1261 CTGTTGATAGGCTCGAATCTGAAATCAGAAATATCCAAATTCAGCAGTATCTTTGTTTA 1320  
Db 2888 CTGTTGATAGGCTCGAATCTGAAATCAGAAATATCCAAATTCAGCAGTATCTTTGTTTA 2947

Qy 1321 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGTGAACGCTCTCTCTCTCTCTCTA 1380  
Db 2948 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGTGAACGCTCTCTCTCTCTCTA 3007  
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Db 3008 ATATTCATATCAACAGACACCACTTCTGGCAATTCACATTTTAAAAATTTATGTGGAAGTGA 3067  
Qy 1441 TAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTTCAGATAAAATAAAATAAA 1500  
Db 3068 TAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTTCAGATAAAATAAAATAAA 3127  
Qy 1501 TCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTTACACTTCTCTGAGG 1560  
Db 3128 TCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTTACACTTCTCTGAGG 3186  
Qy 1561 GGGCGATATCTAAATGTATATAGTATATCTAAATGTATTTCTCTGAGGCGCGAT 1620  
Db 3187 GGGCGATATCTAAATGTATATAGTATATCTAAATGTATTTCTCTGAGGCGCGAT 3246  
Qy 1621 ATACTAAATGTATTTTAGACTTCTCTGAGGCGCGATAAATTAATGCTAAACACTGG 1680  
Db 3247 ATACTAAATGTATTTTAGACTTCTCTGAGGCGCGATAAATTAATGCTAAACACTGG 3306  
Qy 1681 GTA 1683  
Db 3307 GTA 3309

RESULT 12  
US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-46  
  
Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
  
Qy 1 AACAAAGTGGTGGCATCATCCACAGCTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTGGCATCATCCACAGCTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
Qy 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 120  
Db 1688 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 1747  
Qy 121 ATGGCCTCATTTGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCCCT 180  
Db 1748 ATGGCCTCATTTGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCCCT 1807  
Qy 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCAGCGAGTGAATGATGCGACAG 240  
Db 1808 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCAGCGAGTGAATGATGCGACAG 1867  
Qy 241 TGATCGTGACAGCACCGCTGGGAAAGGACACTTTTGTCTTATACCTTGGGACAAAGCAGC 300  
Db 1868 TGATCGTGACAGCACCGCTGGGAAAGGACACTTTTGTCTTATACCTTGGGACAAAGCAGC 1927

QY 301 CTCCCCAAATCCTTCTCTGGGATCCCAAGTGGAGAGCAAGTGGCTTTGTAGTGGACA 360  
Db 1928 CTCCCCAAATCCTTCTCTGGGATCCCAAGTGGAGAGCAAGTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAAATGGCTTACCTCCAAATCCCAAGGATTTGCTAAGGTGGCACTTGGAAAT 420  
Db 1988 AAAACACCAAAATGGCTTACCTCCAAATCCCAAGGATTTGCTAAGGTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCAAGTGGCTGGTCCAATG 480  
Db 2048 ACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCAAGTGGCTGGTCCAATG 2107  
QY 481 CTACCTCGCTCCAAATTCAGTGAATCCAAAACGAACAGACACCAAGCAAAATCCCCCA 540  
Db 2108 CTACCTCGCTCCAAATTCAGTGAATCCAAAACGAACAGACACCAAGCAAAATCCCCCA 2167  
QY 541 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGAGGCTTCCCAATTCCTCAGGGCCAGTG 600  
Db 2168 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGAGGCTTCCCAATTCCTCAGGGCCAGTG 2227  
QY 601 TCACAGCCCTGANTGAATCAGTGAATGGAATAACAGTTTACCTTGGAACTACTGGATAATG 2287  
Db 2228 TCACAGCCCTGANTGAATCAGTGAATGGAATAACAGTTTACCTTGGAACTACTGGATAATG 2287  
QY 661 GAGCAGTGTCTGATGCTTAAAGATGACGGTGTCTACTCAAGGTATTTTCAAACTTTATG 720  
Db 2288 GAGCAGTGTCTGATGCTTAAAGATGACGGTGTCTACTCAAGGTATTTTCAAACTTTATG 2347  
QY 721 ACAGGAATGTAGATACAGTGAATGAGTGGGCTCTGGAGAGGTTAAGCGACCCAGAC 780  
Db 2348 ACAGGAATGTAGATACAGTGAATGAGTGGGCTCTGGAGAGGTTAAGCGACCCAGAC 2407  
QY 781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGCAATTCAGAAATGATG 2467  
Db 2408 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGCAATTCAGAAATGATG 2467  
QY 841 AAATCAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACCAAGCAAG 900  
Db 2468 AAATCAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACCAAGCAAG 2527  
QY 901 TGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC 960  
Db 2528 TGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC 2587  
QY 961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAGGCGGAAATTCAGGGG 1020  
Db 2588 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAGGCGGAAATTCAGGGG 2647  
QY 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATGATGACCAATGGAACAGCTC 1080  
Db 2648 GCAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATGATGACCAATGGAACAGCTC 2707  
QY 1081 ACAAGTATATCATTCGAATTAAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAAT 1140  
Db 2708 ACAAGTATATCATTCGAATTAAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAAT 2767  
QY 1141 CTCTTCAAGTGAATTAATCTGCTCTCATCCCAAGGAGGCAACTCTCAGGAGTCTTTT 1200  
Db 2768 CTCTTCAAGTGAATTAATCTGCTCTCATCCCAAGGAGGCAACTCTCAGGAGTCTTTT 2827  
QY 1201 TGTTTAAACCGAATAAATTAATTTTGAATAATGGCACAGATCTTTTCAATGCTATTCAGG 1260  
Db 2828 TGTTTAAACCGAATAAATTAATTTTGAATAATGGCACAGATCTTTTCAATGCTATTCAGG 2887  
QY 1261 CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAAATTCGACAGTATCTTTGTTTA 1320  
Db 2888 CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAAATTCGACAGTATCTTTGTTTA 2947  
QY 1321 TTCCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACTGCTCTCTCTGCTCTA 1380  
Db 2948 TTCCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACTGCTCTCTCTGCTCTA 3007

QY 1381 ATATTTCATATCAACAGCACCATTCCTGGCAITTCATTTTAAAAATTTATGTGAAAGTGA 1440  
Db 3008 ATATTTCATATCAACAGCACCATTCCTGGCAITTCATTTTAAAAATTTATGTGAAAGTGA 3067  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTCTCAGATAAAATAAA 1500  
Db 3068 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTCTCAGATAAAATAAA 3127  
QY 1501 TCATTATCCTTTTCTTTTGAATTAATAAATTTCTAAATATGATTTTATAGACTTCTCTAGG 1560  
Db 3128 TCATTATCCTTTTCTTTTGAATTAATAAATTTCTAAATATGATTTTATAGACTTCTCTAGG 3186  
QY 1561 GGGCGATATACCTAAATGATATAGTACATTTATCTAAATGATTTTCTGTAGGGGGCGAT 1620  
Db 3187 GGGCGATATACCTAAATGATATAGTACATTTATCTAAATGATTTTCTGTAGGGGGCGAT 3246  
QY 1621 ATACTAAATGATTTTATAGACTTCTGTAGGGGGCGATAAAATAAAATGCTAAACAATGG 1680  
Db 3247 ATACTAAATGATTTTATAGACTTCTGTAGGGGGCGATAAAATAAAATGCTAAACAATGG 3306  
QY 1681 GTA 1683  
Db 3307 GTA 3309

## RESULT 13

US-10-393-590-47  
; Sequence 47, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-47

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGGTGCCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTGCCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
QY 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAA 120  
Db 1688 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAA 1747  
QY 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 180  
Db 1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 1807  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGCTGGATGATGCAACAG 240  
Db 1808 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGCTGGATGATGCAACAG 1867  
QY 241 TGATCGTGGACAGCAGCCGCTGGGAAGGACACTTTGTTTCTTATCACCTGGACCAACGAGC 300  
Db 1868 TGATCGTGGACAGCAGCCGCTGGGAAGGACACTTTGTTTCTTATCACCTGGACCAACGAGC 1927  
QY 301 CTCCCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAAAGGCTTTTGTAGTGGACA 360  
Db 1928 CTCCCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAAAGGCTTTTGTAGTGGACA 1987

QY 361 AAAACACAAAATGGCCCTACTCCAAATCCAGGCAATGCTAAGTTTGGCACTTGGAAAT 420  
DB 1988 AAAACACAAAATGGCCCTACTCCAAATCCAGGCAATGCTAAGTTTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTTCAAAAACCTTGACCTGACTGTACGCTCCCGTGGCTCCAATG 480  
DB 2048 ACAGTCTGCAAGCAAGCTTCAAAAACCTTGACCTGACTGTACGCTCCCGTGGCTCCAATG 2107  
QY 481 CTACCTCTGCTCCAAATTAAGTGAATCTTCCAAACGAACAAAGACACACAGCAAAATCCCA 540  
DB 2108 CTACCTCTGCTCCAAATTAAGTGAATCTTCCAAACGAACAAAGACACACAGCAAAATCCCA 2167  
QY 541 GCCCTCTGCTAGTTATGCAATATTTGCGCAAGGAGCTCCCAATTTCTCAGGCGCAGT 600  
DB 2168 GCCCTCTGCTAGTTATGCAATATTTGCGCAAGGAGCTCCCAATTTCTCAGGCGCAGT 2227  
QY 601 TCACAGCCCTGATGAATCAGTGAATGGAATAACAGTCTTACCTTGGAACTACTGGAATAATG 660  
DB 2228 TCACAGCCCTGATGAATCAGTGAATGGAATAACAGTCTTACCTTGGAACTACTGGAATAATG 2287  
QY 661 GAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATG 720  
DB 2288 GAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATG 2347  
QY 721 ACACGAATGGTATGATACAGTGTAAAGTGGGGCTCTGGAGGAGTTAAAGCGAGCCAGAC 780  
DB 2348 ACACGAATGGTATGATACAGTGTAAAGTGGGGCTCTGGAGGAGTTAAAGCGAGCCAGAC 2407  
QY 781 GAGAGTGTATACCCACGACAGTGGACCTGTACATACCTGGCTGGATTTGAGAATGATG 840  
DB 2408 GAGAGTGTATACCCACGACAGTGGACCTGTACATACCTGGCTGGATTTGAGAATGATG 2467  
QY 841 AAATACAATGGAATPCCACCAAGACCTGAAATTAATAAGATGATGTTCAACACAGCAAG 900  
DB 2468 AAATACAATGGAATPCCACCAAGACCTGAAATTAATAAGATGATGTTCAACACAGCAAG 2527  
QY 901 TGTGTTTTCAGACGAATCCTCGGAGGCTCAATTTGGCTTCTGATGCTCCCAATGCTC 960  
DB 2528 TGTGTTTTCAGACGAATCCTCGGAGGCTCAATTTGGCTTCTGATGCTCCCAATGCTC 2587  
QY 961 CCATACCTGATCTCTCCACCTGGCCAAATCAGGACCTGAAAGCGGGAATTTCAACGGG 1020  
DB 2588 CCATACCTGATCTCTCTCCACCTGGCCAAATCAGGACCTGAAAGCGGGAATTTCAACGGG 2647  
QY 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAATGCAATGCAAGCTC 1080  
DB 2648 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAATGCAATGCAAGCTC 2707  
QY 1081 ACAAGTATATCATTCGAATTAAGTACAGTATTTCTGATCTCAGACAGCAAGTTCAATGAAT 1140  
DB 2708 ACAAGTATATCATTCGAATTAAGTACAGTATTTCTGATCTCAGACAGCAAGTTCAATGAAT 2767  
QY 1141 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 1200  
DB 2768 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 2827  
QY 1201 TGTTTAAACCAAGAAACATTAATTTGAAATGGAACAGATCTTTTCAATGCTATTCAG 1260  
DB 2828 TGTTTAAACCAAGAAACATTAATTTGAAATGGAACAGATCTTTTCAATGCTATTCAG 2887  
QY 1261 CTGTTGATAAGTTCGATCTGAAATCAGAAATATCAAACTTCAGCAGATCTTTTGTGTTA 1320  
DB 2888 CTGTTGATAAGTTCGATCTGAAATCAGAAATATCAAACTTCAGCAGATCTTTTGTGTTA 2947  
QY 1321 TTCTCTCCAGACTCGCCAGACACCTTAGTCTGATGAAACGTCGCTCTTGTGCTTA 1380  
DB 2948 TTCTCTCCAGACTCGCCAGACACCTTAGTCTGATGAAACGTCGCTCTTGTGCTTA 3007  
QY 1381 ATATTCAATATCAACAGCACTTCTCGGATTCACATTTTAAATATTTGGAAGTGA 1440  
DB 3008 ATATTCAATATCAACAGCACTTCTCGGATTCACATTTTAAATATTTGGAAGTGA 3067  
QY 1441 TAGGAACTGACGCTGTCAATAGCTTAGGCTGAATTTTGTGAGATAAATAAATAA 1500

DB 3068 TAGGAACTGACGCTGTCAATAGCTTAGGCTGAATTTTGTGAGATAAATAAATAA 3127  
QY 1501 TCATTCATCTTTTGTGATTAATAAATTTTCTAAAAATGATTTTACACTTCCTGTAGG 1560  
DB 3128 TCATTCATCTTTTGTGATTAATAAATTTTCTAAAAATGATTTTACACTTCCTGTAGG 3186  
QY 1561 GGGCGATATACATAATGATATATAGTACATTTATATCTAAATGATTTCTGTAGGGCGAT 1620  
DB 3187 GGGCGATATACATAATGATATATAGTACATTTATATCTAAATGATTTCTGTAGGGCGAT 3246  
QY 1621 ATACTAATGATTTTGTGATTTTGTAGCTTCTGTAGGGCGATATAAATAAATAAATAA 1680  
DB 3247 ATACTAATGATTTTGTGATTTTGTAGCTTCTGTAGGGCGATATAAATAAATAAATAA 3306  
QY 1681 GTA 1683  
DB 3307 GTA 3309

RESULT 14  
US-10-393-567-11  
; Sequence 11, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-11

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGTGCCATCATCCACAGCTGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
DB 1628 AACAAAGTGTGCCATCATCCACAGCTGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
QY 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACTA 120  
DB 1688 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACTA 1747  
QY 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTAGCGCT 180  
DB 1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTAGCGCT 1807  
QY 181 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCAAGCAG 240  
DB 1808 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCAAGCAG 1867  
QY 241 TGATCGTGACAGCAGCCGTGGAAAGGACACTTTCTTTTATCACTTGGGCAAGCGCAGC 300  
DB 1868 TGATCGTGACAGCAGCCGTGGAAAGGACACTTTCTTTTATCACTTGGGCAAGCGCAGC 1927  
QY 301 CTCCTCCAAATCTCTCTGGGATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGACA 360  
DB 1928 CTCCTCCAAATCTCTCTGGGATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGACA 1987  
QY 361 AAAACACAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTTGGCACTTGGAAAT 420  
DB 1988 AAAACACAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAACCTTGACCTGTACTGTACCTCCGCTCCGCTCCAATG 480

Db	2048	ACAGTCTGCAGCAAGCTCACAAACCTTGACCTGACTGTGACGTCCGTGCGTCAATG	2107
Qy	481	CTACCTCGCTTCCAAATTCAGTGACTTCCAAAACGAAACAGGACACACAGCAAAATCCCCA	540
Db	2108	CTACCTCGCTTCCAAATTCAGTGACTTCCAAAACGAAACAGGACACACAGCAAAATCCCCA	2167
Qy	541	GCCCTCTGGTAGTTTATCAAAATTTGCGCAAGGAGCCTCCCAATTTCTCAGSGCCAGTG	600
Db	2168	GCCCTCTGGTAGTTTATCAAAATTTGCGCAAGGAGCCTCCCAATTTCTCAGSGCCAGTG	2227
Qy	601	TCACAGCCCTGATTTGAATTCAGTGAATGGAAAACAGTTTACCTTGGAACTACTGGATAATG	660
Db	2228	TCACAGCCCTGATTTGAATTCAGTGAATGGAAAACAGTTTACCTTGGAACTACTGGATAATG	2287
Qy	661	GAGCAGGTGCTGATGCTACTAAAGGATCAGGTGCTCTACTCAAGGTATTTCACAACTTATG	720
Db	2288	GAGCAGGTGCTGATGCTACTAAAGGATCAGGTGCTCTACTCAAGGTATTTCACAACTTATG	2347
Qy	721	ACACGAATGTTAGATACAGTGTAAAGTGCGGGCTCTGGAGGAGTTTAAACGACGACGAC	780
Db	2348	ACACGAATGTTAGATACAGTGTAAAGTGCGGGCTCTGGAGGAGTTTAAACGACGACGAC	2407
Qy	781	GGAGAGTGATACCCCGACAGAGTGGACACTGTATCAATACCTGGGAGGACTTAAACGACGAC	840
Db	2408	GGAGAGTGATACCCCGACAGAGTGGACACTGTATCAATACCTGGGAGGACTTAAACGACGAC	2467
Qy	841	AAATACAAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACACAGCAAG	900
Db	2468	AAATACAAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACACAGCAAG	2527
Qy	901	TGFGTTTTACGACGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGCCAAATGCTC	960
Db	2528	TGFGTTTTACGACGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGCCAAATGCTC	2587
Qy	961	CCATACCTGATCTCTTCCCACCTGGCCAAATCACCGACCTTGAGGCGGAAATTCACGGG	1020
Db	2588	CCATACCTGATCTCTTCCCACCTGGCCAAATCACCGACCTTGAGGCGGAAATTCACGGG	2647
Qy	1021	GCAGTCTCAATATCTGACTTTGGACAGCTCCTGGGATGATTATGACCATGGAAACAGCTC	1080
Db	2648	GCAGTCTCAATATCTGACTTTGGACAGCTCCTGGGATGATTATGACCATGGAAACAGCTC	2707
Qy	1081	ACAAATATATCATTCGAATAAGTACAGTATTTCTGATCTCAGACAGCAAGTTCAATGAAT	1140
Db	2708	ACAAATATATCATTCGAATAAGTACAGTATTTCTGATCTCAGACAGCAAGTTCAATGAAT	2767
Qy	1141	CTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGGAAGCAACTCTGAGGAAAGTCTTTT	1200
Db	2768	CTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGGAAGCAACTCTGAGGAAAGTCTTTT	2827
Qy	1201	TGTTTTAAACCAAGAAACATTTACTTTTGAATAAGGACAGATCTTTTCAATGCTATTCAAG	1260
Db	2828	TGTTTTAAACCAAGAAACATTTACTTTTGAATAAGGACAGATCTTTTCAATGCTATTCAAG	2887
Qy	1261	CTGTGTATAAGTTCGATCTGAAATCAGAATAATCCAAACATGCAACAGATCTTTGTTA	1320
Db	2888	CTGTGTATAAGTTCGATCTGAAATCAGAATAATCCAAACATGCAACAGATCTTTGTTA	2947
Qy	1321	TTCTCTCCACAGACTCCGCGACAGACACCTTAGTCTGATGAAACGCTGCTCTTGTCTTA	1380
Db	2948	TTCTCTCCACAGACTCCGCGACAGACACCTTAGTCTGATGAAACGCTGCTCTTGTCTTA	3007
Qy	1381	ATATTTCATATCAACAGCACCATTTCTTGGCATTCACATTTTAAATAATATGTGGAAGTGA	1440
Db	3008	ATATTTCATATCAACAGCACCATTTCTTGGCATTCACATTTTAAATAATATGTGGAAGTGA	3067
Qy	1441	TAGGAGAACTCAGCTGTCATAGCTAGGCTGAAATTTTCTCAGATAAATAAATAA	1500
Db	3068	TAGGAGAACTCAGCTGTCATAGCTAGGCTGAAATTTTCTCAGATAAATAAATAA	3127
Qy	1501	TCATTTCATCTTTTGTGATTAATAAATTTTCTTAAATTTGATTTTATAGACTTCCTGTAGG	1560

Db	3128	TCATTCATCC-TTTTTTCATTATATAAAATTTTCTAAAATGTATTTTAGACTTCTCTGTAGG	3186
Qy	1561	GGCGGATATACATAAATGTATATAGTACATTTATATACTAAATGTATTCCTGTAGGGGGCGAT	1620
Db	3187	GGCGGATATACATAAATGTATATAGTACATTTATATACTAAATGTATTCCTGTAGGGGGCGAT	3246
Qy	1621	ATACTAAATGTATTTTAGACTTCCTGTAGGGGGCGATAAAAATAAAATGCTAAACAACCTGG	1680
Db	3247	ATACTAAATGTATTTTAGACTTCCTGTAGGGGGCGATAAAAATAAAATGCTAAACAACCTGG	3306
Qy	1681	GTA 1683	
Db	3307	GTA 3309	
RESULT 15			
US-10-393-567-12			
; Sequence 12, Application US/10393567			
; Publication No. US20030194733A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL			
; FILE REFERENCE: CDS 269 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,567			
; CURRENT FILING DATE: 2003-03-21			
; PRIOR APPLICATION NUMBER: 60/368,667			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 12			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-567-12			
Query Match 99.3%; Score 1671; DB 15; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;			
Qy	1	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60
Db	1628	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	1687
Qy	61	AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAC	120
Db	1688	AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAC	1747
Qy	121	ATGGCTTCATGTATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	180
Db	1748	ATGGCTTCATGTATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	1807
Qy	181	CCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240
Db	1808	CCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1867
Qy	241	TGATCGTGACAGCACCGCTGGGAAAGGACATTTGTTCTTATCACTGGACAAACGCGAGC	300
Db	1868	TGATCGTGACAGCACCGCTGGGAAAGGACATTTGTTCTTATCACTGGACAAACGCGAGC	1927
Qy	301	CTCCCCAAATTCCTCTCTGGGATCCAGTGAGACAGCAAGGTTGGCTTTGTAGTGACA	360
Db	1928	CTCCCCAAATTCCTCTCTGGGATCCAGTGAGACAGCAAGGTTGGCTTTGTAGTGACA	1987
Qy	361	AAAAACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT	420
Db	1988	AAAAACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT	2047
Qy	421	ACAGTGTCAAGCAAGCTCACAACACCTTTGACCTTGACTGTCAAGTCCCGGCGCTCCAATG	480
Db	2048	ACAGTGTCAAGCAAGCTCACAACACCTTTGACCTTGACTGTCAAGTCCCGGCGCTCCAATG	2107
Qy	481	CTACCTTGGCTTCCAATTCAGTGACTTCCAAAACGAAACAGGACACCCAGCAAAATTCCTCCA	540

Db	2108	CTACCTCGCTCCAAATACAGTGACTTCCAAAACGACACAGCAAAATCCCCA	2167																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 09:47:01 ; Search time 165.922 Seconds  
(without alignments)  
12778.822 Million cell updates/sec

Title: US-09-049-696-20

Perfect score: 2983

Sequence: 1 GAATCAGGAGATGTAC.....AAATGCTAAACAACGGGTA 2983

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*

- 1: /cgn2\_6/prodata/1/ina/5A COMB.seq.\*
- 2: /cgn2\_6/prodata/1/ina/5B COMB.seq.\*
- 3: /cgn2\_6/prodata/1/ina/6A COMB.seq.\*
- 4: /cgn2\_6/prodata/1/ina/6B COMB.seq.\*
- 5: /cgn2\_6/prodata/1/ina/PCUS COMB.seq.\*
- 6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2971.8	99.6	3007	3	US-09-193-562D-27
2	2971.8	99.6	3007	4	US-10-055-412B-27
3	2743	92.0	2745	4	US-09-623-624-5
4	2743	92.0	2745	4	US-10-270-595-5
5	1764	59.1	2931	4	US-09-623-624-1
6	1764	59.1	2931	4	US-10-270-595-1
7	1512	50.7	1512	4	US-09-016-434-850
8	1308.6	43.9	3043	3	US-09-049-698-16
9	1308.6	43.9	3181	3	US-09-049-698-18
10	900.2	30.2	3317	3	US-09-193-562D-1
11	900.2	30.2	3317	4	US-10-055-412B-1
12	840.6	28.2	3022	3	US-09-193-562D-33
13	840.6	28.2	3022	4	US-10-055-412B-33
14	832.6	27.9	3418	3	US-09-193-562D-29
15	832.6	27.9	3418	4	US-10-055-412B-29
16	790.8	26.5	878	1	US-08-469-667-8
17	790.8	26.5	878	3	US-09-224-110-8
18	790.8	26.5	878	5	PCT-US95-07289-8
19	554.6	18.6	2784	4	US-09-643-597-168
20	554.6	18.6	2784	4	US-09-480-884A-168
21	554.6	18.6	2784	4	US-09-542-615A-168
22	554.6	18.6	2784	4	US-09-606-421B-168
23	554.6	18.6	2784	4	US-09-466-396A-168
24	554.6	18.6	2784	4	US-09-476-496A-168
25	554.6	18.6	2784	4	US-09-630-940B-168
26	552.2	18.5	2773	4	US-09-643-597-358
27	552.2	18.5	2773	4	US-09-630-940B-358

28	552.2	18.5	2970	3	US-09-193-562D-31	Sequence 31, Appl
29	552.2	18.5	2970	4	US-10-055-412B-31	Sequence 31, Appl
30	552.2	18.5	3951	4	US-09-643-597-160	Sequence 160, App
31	552.2	18.5	3951	4	US-09-480-884A-160	Sequence 160, App
32	552.2	18.5	3951	4	US-09-542-615A-160	Sequence 160, App
33	552.2	18.5	3951	4	US-09-606-421B-160	Sequence 160, App
34	552.2	18.5	3951	4	US-09-466-396A-160	Sequence 160, App
35	552.2	18.5	3951	4	US-09-476-496A-160	Sequence 160, App
36	552.2	18.5	3951	4	US-09-630-940B-160	Sequence 160, App
37	552.2	18.5	3951	4	US-09-643-597-254	Sequence 254, App
38	552.2	18.5	8031	4	US-09-480-884A-254	Sequence 254, App
39	552.2	18.5	8031	4	US-09-542-615A-254	Sequence 254, App
40	552.2	18.5	8031	4	US-09-606-421B-254	Sequence 254, App
41	552.2	18.5	8031	4	US-09-476-496A-254	Sequence 254, App
42	552.2	18.5	8031	4	US-09-630-940B-254	Sequence 254, App
43	552.2	18.5	8031	4	US-09-643-597-358	Sequence 358, App
44	550.6	18.5	3190	4	US-09-630-940B-358	Sequence 358, App
45	550.6	18.5	3190	4	US-10-270-595-3	Sequence 3, Appli

## ALIGNMENTS

## RESULT 1

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27

; LENGTH: 3007  
; TYPE: DNA

; ORGANISM: Homo sapiens  
US-09-193-562D-27

Query Match 99.6%; Score 2971.8; DB 3; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 2976; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy	1	GAATCAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTTCATCTGATT	60
Db	23	GGAATCAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTTCATCTGATT	82
Qy	61	CTTCACCTTCTAGAGGGGGCCCTGAGTAATTCATCTAGCTGAGCAACAATGGCTAT	120
Db	83	CTTCACCTTCTAGAGGGGGCCCTGAGTAATTCATCTAGCTGAGCAACAATGGCTAT	142
Qy	121	GAAGGCATTTGCTTGAATTCGACCCCAATGTGCCAGAGATGAACACATCTACACAA	180
Db	143	GAAGGCATTTGCTTGAATTCGACCCCAATGTGCCAGAGATGAACACATCTACACAA	202
Qy	181	ATAAGACATGTGACCCCGGATCTCTATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	203	ATAAGACATGTGACCCCGGATCTCTATCTGTTTGAAGCTACAGGAAGCGATT	262
Qy	241	TATTTCAAAATGTTGCCATTTTGAATTCCTGGAACATGGAAGCAAGGCTGATGTG	300
Db	263	TATTTCAAAATGTTGCCATTTTGAATTCCTGGAACATGGAAGCAAGGCTGATGTG	322
Qy	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	360
Db	323	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	382
Qy	361	GGAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGCTAAAGATC	420



Qy	2581	AAATCAGAAATATCCACATTTGCGACGAGTATCTTTGTTTATTCCTCCACAGACTCGCCCA	2640
Db	2603	AAATCAGAAATATCCACATTTGCGACGAGTATCTTTGTTTATTCCTCCACAGACTCGCCCA	2662
Qy	2641	GAGACACTAGTCCTGATGAAACGCTGCTCCCTGCTCAATATTCATATCAACAGCACC	2700
Db	2663	GAGACACTAGTCCTGATGAAACGCTGCTCCCTGCTCAATATTCATATCAACAGCACC	2722
Qy	2701	ATTCTCTGGCAATTCACATTTTAAAAAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA	2760
Db	2723	ATTCTCTGGCAATTCACATTTTAAAAAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA	2782
Qy	2761	ATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAAATCAATTCATCTCTTTTTTTTGA	2820
Db	2783	ATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAAATCAATTCATCTCTTTTTTTTGA	2842
Qy	2821	TTATAAAATTTTCTAAAAATGTATTTTAGACTTCCTGTAGGGGGCGATATACTAAATGTAT	2880
Db	2843	TTATAAAATTTTCTAAAAATGTATTTTAGACTTCCTGTAGGGGGCGATATACTAAATGTAT	2902
Qy	2881	ATAGTACATTTATATACTAAATGTATTCCTGTAGGGGGCGATATACTAAATGTATTTTAGAC	2940
Db	2903	ATAGTACATTTATATACTAAATGTATTCCTGTAGGGGGCGATATACTAAATGTATTTTAGAA	2962
Qy	2941	TTCTCTGTAGGGGGCGATAAATAAATAAATATGCTTAAACAACCTGGGTA	2983
Db	2963	TTCTCTGTAGGGGGCGATAAATAAATAAATATGCTTAAACAACCTGGGTA	3005

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RESULT 2
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055.412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

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Query Match.	99.6%;	Score 2971.8;	DB 4;	Length 3007;	
Best Local Similarity	99.8%;	Pred. No. 0;			
Matches 2976;	Conservative	0;	Mismatches	7;	
		Indels	0;	Gaps	0
QY	1	GAATCACAGGGAGATGTACAGCAATGGGGCCATTTAGAGTTCGTCTTCATCTTGATT	60		
Db	23	GGATCACAGGGAGATGTACAGCAATGGGGCCATTTAGAGTTCGTCTTCATCTTGATT	82		
QY	61	CTTCACCTTCTAGAAGGGGCCCTCAGTAATTCACTCATTAGCTGAAACAAATGGCTAT	120		
Db	83	CTTCACCTTCTAGAAGGGGCCCTCAGTAATTCACTCATTAGCTGAAACAAATGGCTAT	142		
QY	121	GAAGGCATTGTCGTTCGTAATCGACCCCAATGTGCCAGAAGATGAACAATCAACAA	180		
Db	143	GAAGGCATTGTCGTTCGTAATCGACCCCAATGTGCCAGAAGATGAACAATCAACAA	202		
QY	181	ATAAAGGACATGTCGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240		
Db	203	ATAAAGGACATGTCGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	262		
QY	241	TATTTCAAAATGTTGGCAATTTTCATTCCTGAAACATGGAAGACAAAGGCTGACTATCTG	300		

Db	263	TATTTCAAATAATGTTGCCATTTTGATTCCTCGAAACATGGAAACAAAGGCTGACTATGTG	322
Qy	301	AGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCCTCCA	360
Db	323	AGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCCTCCA	382
Qy	361	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGCTGAAAGGATC	420
Db	383	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGCTGAAAGGATC	442
Qy	421	CACCTCACTCCTGATTTCAATTGTCAGGAAAAAGTTAGCTGAAATATGGACCACAAGGTAGG	480
Db	443	CACCTCACTCCTGATTTCAATTGTCAGGAAAAAGTTAGCTGAAATATGGACCACAAGGTAGG	502
Qy	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	540
Db	503	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	562
Qy	541	GAGAAATTTACTTATCCAATGGAGAAATACAAGCAGTAAGATGTTTCAGCAGGTATTACT	600
Db	563	GAGAAATTTACTTATCCAATGGAGAAATACAAGCAGTAAGATGTTTCAGCAGGTATTACT	622
Qy	601	GGTACAAATGTAGTAAGAAGTGTGAGGAGGCAGCTGTTTACACAAAAGATGCAATTC	660
Db	623	GGTACAAATGTAGTAAGAAGTGTGAGGAGGCAGCTGTTTACACAAAAGATGCAATTC	682
Qy	661	AATAAGTAAACAGGACTCTATGAAAAAGGATGTGATTTGTTCTCCAATCCCGCCAGAG	720
Db	683	AATAAGTAAACAGGACTCTATGAAAAAGGATGTGATTTGTTCTCCAATCCCGCCAGAG	742
Qy	721	GAGAAGGCTTCTATAATGTTTGCACAAACATGTTGATTTCTATAGTTGAAATTTGTACAA	780
Db	743	GAGAAGGCTTCTATAATGTTTGCACAAACATGTTGATTTCTATAGTTGAAATTTGTACAA	802
Qy	781	CAAAACCAACAAAGAAGCTCCAAAACAAAGCAAAATCAAAATGCAATCTCCGAAGCACA	840
Db	803	CAAAACCAACAAAGAAGCTCCAAAACAAAGCAAAATCAAAATGCAATCTCCGAAGCACA	862
Qy	841	TGGGAAGTGATCCGCTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCA	900
Db	863	TGGGAAGTGATCCGCTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCA	922
Qy	901	CCAAATCCACCTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTGTTTAACTCCTTGCAC	960
Db	923	CCAAATCCACCTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTGTTTAACTCCTTGCAC	982
Qy	961	AAATCTGGAAGCATGGGACCTGGTAAACCGCCTCAATCGACTGAATCAAGAGGCGCAGCTT	1020
Db	983	AAATCTGGAAGCATGGGACCTGGTAAACCGCCTCAATCGACTGAATCAAGAGGCGCAGCTT	1042
Qy	1021	TTCTGCTGCAGACAGTTGAGCTGGGGTTCGGGTGGGATGGGTGAGCTTTCACAGTGCCT	1080
Db	1043	TTCTGCTGCAGACAGTTGAGCTGGGGTTCGGGTGGGATGGGTGAGCTTTCACAGTGCCT	1102
Qy	1081	GCCCATGTACAAAGTGAACCTATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1140
Db	1103	GCCCATGTACAAAGTGAACCTATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1162
Qy	1141	AAAAGATTACTGCAGCAGCTTCAGAGGAGCAGTCCATCTTCGACGGGGCTTCGATCGGCA	1200
Db	1163	AAAAGATTACTGCAGCAGCTTCAGAGGAGCAGTCCATCTTCGACGGGGCTTCGATCGGCA	1222
Qy	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTCAGCGAT	1260
Db	1223	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTCAGCGAT	1282
Qy	1261	GGGGAAGACAACACTATAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGCCTATCATC	1320
Db	1283	GGGGAAGACAACACTATAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGCCTATCATC	1342
Qy	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380
Db	1343	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1402

1381 QY GAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAATAGGCGCTCATTTGATGCTTTT 1440  
1403 Db GAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAATAGGCGCTCATTTGATGCTTTT 1462  
1441 QY GGGGCGCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAG 1500  
1463 Db GGGGCGCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAG 1522  
1501 QY GGATTAACCTCCAGAACAGCCAGTGGATGAATGGACAGTGAATCGTGGACAGACCGGTG 1560  
1523 Db GGATTAACCTCCAGAACAGCCAGTGGATGAATGGACAGTGAATCGTGGACAGACCGGTG 1582  
1561 QY GGAAGGACACTTTGTTCTTATCACTGGGCAACGCGAGCTCCCAAAATCCTTCTGG 1620  
1583 Db GGAAGGACACTTTGTTCTTATCACTGGGCAACGCGAGCTCCCAAAATCCTTCTGG 1642  
1621 QY GATCCAGTGGACAGAAGCAAGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCTAC 1680  
1643 Db GATCCAGTGGACAGAAGCAAGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCTAC 1702  
1681 QY CTCGAAATCCGAGGATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
1703 Db CTCGAAATCCGAGGATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1762  
1741 QY CAAACCTTGACCTGACTGTCAAGTCCCGTGGTCCCAATGCTACCTGCTCCCAATTACA 1800  
1763 Db CAAACCTTGACCTGACTGTCAAGTCCCGTGGTCCCAATGCTACCTGCTCCCAATTACA 1822  
1801 QY GTGACTTCCAAAACGAAACAGACACCAAGCAAAATTTCCGAGCCCTCTGGTAGTTATGCA 1860  
1823 Db GTGACTTCCAAAACGAAACAGACACCAAGCAAAATTTCCGAGCCCTCTGGTAGTTATGCA 1882  
1861 QY AATATTCCGCAAGAGCCTCCCAATTTCTCAGGCGAGTGTCAAGCCCTGATGAATCA 1920  
1883 Db AATATTCCGCAAGAGCCTCCCAATTTCTCAGGCGAGTGTCAAGCCCTGATGAATCA 1942  
1921 QY GTGAATGAAACAGATTTACCTTGGAACTACTGGATTAATGGAGAGGTGCTGATGCTACT 1980  
1943 Db GTGAATGAAACAGATTTACCTTGGAACTACTGGATTAATGGAGAGGTGCTGATGCTACT 2002  
1981 QY AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACACGAATGGTAGACAGT 2040  
2003 Db AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACACGAATGGTAGACAGT 2062  
2041 QY GTAAAGTGCGGGCTCTGGGAGGTAAACGAGCCAGACGAGAGTGAATCCCGACGAG 2100  
2063 Db GTAAAGTGCGGGCTCTGGGAGGTAAACGAGCCAGACGAGAGTGAATCCCGACGAG 2122  
2101 QY AGTGAGGACCTGTACATACCTGGCTGGATTGGAATGATGAATCAATGGAATCCACCA 2160  
2123 Db AGTGAGGACCTGTACATACCTGGCTGGATTGGAATGATGAATCAATGGAATCCACCA 2182  
2161 QY AGACCTGAAATTAATGAAGATGATGTTCAACCAAGCAAGTGTGTTTCAGCAAGACATCC 2220  
2183 Db AGACCTGAAATTAATGAAGATGATGTTCAACCAAGCAAGTGTGTTTCAGCAAGACATCC 2242  
2221 QY TCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTTCCCA 2280  
2243 Db TCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTTCCCA 2302  
2281 QY CTTGGCCAAATCACCAGCTGAAGCGGAAATTTACGGGGGCGAGTCTCAATTAATCTGACT 2340  
2303 Db CTTGGCCAAATCACCAGCTGAAGCGGAAATTTACGGGGGCGAGTCTCAATTAATCTGACT 2362  
2341 QY TGGACAGCTCTCGGGATGATTTAGCCATGGAAACAGCTCAACAGTATATCATTTGGAATA 2400  
2363 Db TGGACAGCTCTCGGGATGATTTAGCCATGGAAACAGCTCAACAGTATATCATTTGGAATA 2422  
2401 QY AGTACAGATTTCTTGATCTCAGAGCAAGTTCATGAATCTCTTCAAGTGAATCTACT 2460  
2423 Db AGTACAGATTTCTTGATCTCAGAGCAAGTTCATGAATCTCTTCAAGTGAATCTACT 2482

2461 QY GCTCTCATCCCAAGGAGCCAACTCTCAGGAAGTCTTTTTTGTAAAAACAGAAAAACATT 2520  
2483 Db GCTCTCATCCCAAGGAGCCAACTCTCAGGAAGTCTTTTTTGTAAAAACAGAAAAACATT 2542  
2521 QY ACTTTTGAATAATGGCACAGATCTTTTTCATTGCTATTTCAGGCTGTTTGAAGGTCGATCG 2580  
2543 Db ACTTTTGAATAATGGCACAGATCTTTTTCATTGCTATTTCAGGCTGTTTGAAGGTCGATCG 2602  
2581 QY AAATCAGAAATATCCAACTTCAGAGTATCTTTTGTATTTCCTCCACAGACTCCGCCA 2640  
2603 Db AAATCAGAAATATCCAACTTCAGAGTATCTTTTGTATTTCCTCCACAGACTCCGCCA 2662  
2641 QY GAGACACCTAGTCTCGATGAAACGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700  
2663 Db GAGACACCTAGTCTCGATGAAACGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2722  
2701 QY ATTCTGCGCATTCACATTTTAAAAATTTATGTGAAAGTGGATAGGAGAACTGCAGCTGTA 2760  
2723 Db ATTCTGCGCATTCACATTTTAAAAATTTATGTGAAAGTGGATAGGAGAACTGCAGCTGTA 2782  
2761 QY ATAGCTAGGCGTGAATTTTGTCTCAGATAAATAAATAAATCAATTCATCTCTTTTTTTGA 2820  
2783 Db ATAGCTAGGCGTGAATTTTGTCTCAGATAAATAAATAAATCAATTCATCTCTTTTTTTGA 2842  
2821 QY TTATAAAATTTTCTAAAAATGTTATTTTAGACTTCTCTGTAGGGGCGATATACCTAAATGTAT 2880  
2843 Db TTATAAAATTTTCTAAAAATGTTATTTTAGACTTCTCTGTAGGGGCGATATACCTAAATGTAT 2902  
2881 QY ATAGTACATTTATATCAATGTTATTTCTGTAGGGGCGATATACCTAAATGTTATTTTAGAC 2940  
2903 Db ATAGTACATTTATATCAATGTTATTTCTGTAGGGGCGATATACCTAAATGTTATTTTAGAA 2962  
2941 QY TTCCTGTAGGGGCGATATAAATAAATAAATGCTTAACCACTGGGTA 2983  
2963 Db TTCCTGTAGGGGCGATATAAATAAATAAATGCTTAACCACTGGGTA 3005

## RESULT 3

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Megalixin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

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; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-09-623-624-5

Query Match      92.0%; Score 2743; DB 4; Length 2745;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 25 ATGGGGCCATTAAAGAGTCTGTGTTCACTTCTGATTCCTTCACTTCTGAGAGGGGCCCTG 84
Db 1 ATGGGGCCATTAAAGAGTCTGTGTTCACTTCTGATTCCTTCACTTCTGAGAGGGGCCCTG 60

QY 85 AGTAATTCACATTCAGCTGAACAACTGCTATGAGGCATGCTGTTGCAATCGNC 144
Db 61 AGTAATTCACATTCAGCTGAACAACTGCTATGAGGCATGCTGTTGCAATCGAC 120

QY 145 CCCAATGTGCCAGAGATGAACACTCACTTCAACAAATAAAGGACATGTTGACCCAGGCA 204
Db 121 CCCAATGTGCCAGAGATGAACACTCACTTCAACAAATAAAGGACATGTTGACCCAGGCA 180

QY 205 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264
Db 181 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTTG 240

QY 265 ATTCCTGAAAATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db 241 ATTCCTGAAAATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 300

QY 325 AATGCTGATGTTCTGGTGTGAGTCTACTCTCCAGGTATGATGAACCCCTTACACTGAG 384
Db 301 AATGCTGATGTTCTGGTGTGAGTCTACTCTCCAGGTATGATGAACCCCTTACACTGAG 360

QY 385 CAGATGGCACTGTGGAGAGAGGTTGAAGATCCACCTCACTCTGATTTCAATGCA 444
Db 361 CAGATGGCACTGTGGAGAGAGGTTGAAGATCCACCTCACTCTGATTTCAATGCA 420

QY 445 GGAAGAAAGTTAGCTGAATATGGACCAAGGTAGGCAATTTGCCATGAGTGGCTCAT 504
Db 421 GGAAGAAAGTTAGCTGAATATGGACCAAGGTAGGCAATTTGCCATGAGTGGCTCAT 480

QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTCAAATGGA 564
Db 481 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTCAAATGGA 540

QY 565 AGAATACAGCAGTAAGATGTTACGAGGTATTTACTGTTCAAAATGATGAAGAGTGT 624
Db 541 AGAATACAGCAGTAAGATGTTACGAGGTATTTACTGTTCAAAATGATGAAGAGTGT 600

QY 625 CAGGAGGCAGCTGTTACACAAAGATGCATTTCAATTAAGTAAAGAGCTCTATGAA 684
Db 601 CAGGAGGCAGCTGTTACACAAAGATGCATTTCAATTAAGTAAAGAGCTCTATGAA 660

QY 685 AAAGATGTGATGTTGTTCTCCAATCCCGCAGAGGAGGCTTCTATATGTTTGCA 744
Db 661 AAAGATGTGATGTTGTTCTCCAATCCCGCAGAGGAGGCTTCTATATGTTTGCA 720

QY 745 CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACCAACCAAAAGAGCTCCA 804
Db 721 CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACCAACCAAAAGAGCTCCA 780

QY 805 AACAGCAAAATCAAAATCAATCTCCGAGACATGGGAGTGCATCCGTTGATTTCTGAG 864
Db 781 AACAGCAAAATCAAAATCAATCTCCGAGACATGGGAGTGCATCCGTTGATTTCTGAG 840

QY 865 GACITTTAAGAAAACACCTCTTATGACAAACAGCCACCAAAATCCCACTTCTCATTTGCTG 924

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901 CAGATTGACAAAGAAATTTGTGTGTTTAGTCTTGTGAAATCTGGAAGCATGCGACTGTT 960
985 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGAGACAGTGTGAGCTG 1044
961 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGAGACAGTGTGAGCTG 1020
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1021 GGGTCTCTGGTTGGGATGTTGACATTTGACAGTGTGCTGCCATGTACAAAGTCAACTCAT 1080
1105 CAGATAAACAGTGGCAGTGAAGGACACACTCGCCAAAAGATTACCTGACAGCTTCA 1164
1081 CAGATAAACAGTGGCAGTGAAGGACACACTCGCCAAAAGATTACCTGACAGCTTCA 1140
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1141 GGAGGAGCTCCATCTGAGCGGGCTTCGATGGCATTTACTGTGATTAGGAAGAAATAT 1200
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1201 CCAACTGATGGATCTGAAATTTGTGCTGCTGACGGATGGGAGACAACTATTAAGTGG 1260
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1261 TGTCTTAAAGAGTCAAAACAAAGTGGTCCATTCATCCACAGTGCCTTTGGGGCCCTCT 1320
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1585 ACCTGGACAAAGCAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAACAGAGT 1644
1561 ACCTGGACAAAGCAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAACAGAGT 1620
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1825 ACCAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCCTCCAGGAGCCCTCCCA 1884
1801 ACCAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCCTCCAGGAGCCCTCCCA 1860
1885 ATTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCAGTGAATGGAAGAAACAGTTACCTTG 1944
1861 ATTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCAGTGAATGGAAGAAACAGTTACCTTG 1920
1945 GAACCTACTGATTAATGGAGCAGGTGCTGCTACTACTAAGGATGACGCTGCTACTCAAGG 2004
1921 GAACCTACTGATTAATGGAGCAGGTGCTGCTACTACTAAGGATGACGCTGCTACTCAAGG 1980

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QY 2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTCGGGCTCTGGAGGA 2064
Db 1981 TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTCGGGCTCTGGAGGA 2040
QY 2065 GTTAACGAGCCAGACGAGAGTGTATCCAGAGAGAGTGGAGCACTGTACATACCTGGC 2124
Db 2041 GTTAACGAGCCAGACGAGAGTGTATCCAGAGAGAGTGGAGCACTGTACATACCTGGC 2100
QY 2125 TGGATTGGAATGATGAATAACAATGGAATCCACAGACCTGAAATTAATAAGATGAT 2184
Db 2101 TGGATTGGAATGATGAATAACAATGGAATCCACAGACCTGAAATTAATAAGATGAT 2160
QY 2185 GTTCAACACACAGAGTGTATGACAGCAATCCTCGGAGGCTCATTTGTGCTTCT 2244
Db 2161 GTTCAACACACAGAGTGTATGACAGCAATCCTCGGAGGCTCATTTGTGCTTCT 2220
QY 2245 GATGTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAG 2304
Db 2221 GATGTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAG 2280
QY 2305 GCGGAAATTCAGGGGAGTCTCATTAATCTGAATGACAGCTCCTGGGATGATTAAT 2364
Db 2281 GCGGAAATTCAGGGGAGTCTCATTAATCTGAATGACAGCTCCTGGGATGATTAAT 2340
QY 2365 GACATGGAACAGCTCACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGA 2424
Db 2341 GACATGGAACAGCTCACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGA 2400
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Db 2401 GACAAAGTCAATGAATCTCTTCAAGTGAATACTACTGTCTCATCCCAAGGAAGCCAAAC 2460
QY 2485 TCTGAGGAAGTCTTTTGTGTTAAACAGAGAAACATTAATTTGAAATAGGCAAGATCTT 2544
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Db 2641 TCTGCTCCTTGTCTTAATTCATATCAACAGACCATTCCTGGCATTCACATTTTAAA 2700
QY 2725 ATTATGTGAAGTGGATAGAGAACTGCAGCTGTCAATAGCCTAG 2769
Db 2701 ATTATGTGAAGTGGATAGAGAACTGCAGCTGTCAATAGCCTAG 2745
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## RESULT 4

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US-10-270-595-5
; Sequence 5, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magalini Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-10-270-595-5
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Query Match 92.0%; Score 2743; DB 4; Length 2745;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 25 ATGGGGCCATTTAAGAGTTCTGTGTCTATCTTGATCTTTCACCTTCTTAGAAGGGCCCTG 84
Db 1 ATGGGGCCATTTAAGAGTTCTGTGTCTATCTTGATCTTTCACCTTCTTAGAAGGGCCCTG 60

QY 85 AGTAATTCACATTCACCTGAAACAAATGGCTATGAGGCAATTCGTTCATTCGAC 144
Db 61 AGTAATTCACATTCACCTGAAACAAATGGCTATGAGGCAATTCGTTCATTCGAC 120

QY 145 CCCAATGTCAGAGAGTGAACACTCTTCAACAAATTAAGGACATGGTGACCCAGGCA 204
Db 121 CCCAATGTCAGAGAGTGAACACTCTTCAACAAATTAAGGACATGGTGACCCAGGCA 180

QY 205 TCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTGCCATTTTG 264
Db 181 TCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTGCCATTTTG 240

QY 265 ATTCCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAAACTTGAGACCTACAAA 324
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Db 301 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTGAG 360

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Db 361 CAGATGGGCAACTGTGGAGAGAAAGGTGAAAGATCCACCTCACTCCTGATTTCAATTGCA 420

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Db 421 GGAAGAAAGTTAGCTGAATATGACCAAGTAGGGCATTTGTCATGAGTGGGCTCAT 480

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QY 1645 GGCTTTGTAGTGGACAAAACCAAAATGGCCCTACCTCCAAATCCCAAGGATTTGCTAAG 1704  
Db 1621 GGCTTTGTAGTGGACAAAACCAAAATGGCCCTACCTCCAAATCCCAAGGATTTGCTAAG 1680  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTACG 1764  
Db 1681 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTACG 1740  
QY 1765 TCCCGTGGCTCAATGCTACCTTGCTCCTCAATTACAGTGACTTCCAAACCAAGGAC 1824

Db 1741 TCCCGTGGCTCAATGCTACCTGCCCTCCAAATACAGTGACTTCCAAACCAAGGAC 1800  
QY 1825 ACCAGCAAAATCCCAAGCCCTCTGGTAGTTTATCAAAATATTCCCAAGAGACCTCCCCA 1884  
Db 1801 ACCAGCAAAATCCCAAGCCCTCTGGTAGTTTATCAAAATATTCCCAAGAGACCTCCCCA 1860  
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATTTGAATTCAGTGAATGGAATAACAGTTACCTTG 1944  
Db 1861 ATTCTCAGGGCCAGTGTACAGCCCTGATTTGAATTCAGTGAATGGAATAACAGTTACCTTG 1920  
QY 1945 GAACCTACTGGAATATGAGCAGGTCGTGATGCTACTAAGGATACGGTGTCTACTCAAGG 2004  
Db 1921 GAACCTACTGGAATATGAGCAGGTCGTGATGCTACTAAGGATACGGTGTCTACTCAAGG 1980  
QY 2005 TATTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2064  
Db 1981 TATTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2040  
QY 2065 GTTAAACGACCCAGACGGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 2041 GTTAAACGACCCAGACGGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2100  
QY 2125 TGGATTGAGAAATGAAATCAATGAATCCCAAGACCTGAAATTTAATAAGGATGAT 2184  
Db 2101 TGGATTGAGAAATGAAATCCCAATGGAATCCCAAGACCTGAAATTTAATAAGGATGAT 2160  
QY 2185 GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCTTCT 2244  
Db 2161 GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCTTCT 2220  
QY 2245 GATGTCCTCAAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACTGAG 2304  
Db 2221 GATGTCCTCAAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACTGAG 2280  
QY 2305 GCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGAGGATGATTAT 2364  
Db 2281 GCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGAGGATGATTAT 2340  
QY 2365 GACCATCGAAACAGCTCAAAAGTATATCATTCGAATAAGTACAAGTATCTTTGATCTCAGA 2424  
Db 2341 GACCATCGAAACAGCTCAAAAGTATATCATTCGAATAAGTACAAGTATCTTTGATCTCAGA 2400  
QY 2425 GACAAAGTTCATGAAATCTCTTCAAGTGAATCTACTGCTCTCATCTCCAAAGGAAGCCAAAC 2484  
Db 2401 GACAAAGTTCATGAAATCTCTTCAAGTGAATCTACTGCTCTCATCTCCAAAGGAAGCCAAAC 2460  
QY 2485 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAAACATTTACTTTTGAATAATGCCACAGATCTT 2544  
Db 2461 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAAACATTTACTTTTGAATAATGCCACAGATCTT 2520  
QY 2545 TTCAATGCTATTCAGGCTGTGTGATAAGTTCGATCTGAAATCAGAAATATCCAACTTGA 2604  
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QY 2605 CGAGTATCTTTGTTTATTTCTCCACAGCTCCCGCCAGACACCTAGTCTGATGAACG 2664  
Db 2581 CGAGTATCTTTGTTTATTTCTCTCCACAGCTCCCGCCAGACACCTAGTCTGATGAACG 2640  
QY 2665 TCTGCTCTTTGTCCTTAATATTTTCATATCAACAGACCACTTCTGTCATTTACATTTTAA 2724  
Db 2641 TCTGCTCTTTGTCCTTAATATTTTCATATCAACAGACCACTTCTGTCATTTACATTTTAA 2700  
QY 2725 ATTATGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG 2769  
Db 2701 ATTATGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG 2745

## RESULT 5

US-09-623-624-1

; Sequence 1, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US 09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
us-09-623-624-1

Query Match 59.1%; Score 1764; DB 4; Length 2931;  
Best Local Similarity 77.5%; Pred. No. 0;  
Matches 2212; Conservative 0; Mismatches 615; Indels 29; Gaps 5;

Qy	25	ATGGGGCCATTAAAGAGTCTGTGTTCACTTGTGATCTTCACTTCTTCAAGAGGGCCCTG	84
Ds	8	ATGGAATCTTTGAAGAGTCTGTGTTCACTTGTGATCTTCACTTCTTCAAGAGGGTCTG	67
Qy	85	AGTAATTCATCTACCTGACCTGAACAAATGGCTATGAGGATGTTGTTGCAATCGAC	144
Ds	68	AGTGAATCTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACT	127
Qy	145	CCCAATGTCAGAGATGAACACTCTTCAACAAATAAGGACATGTTGACCCAGGCA	204
Ds	128	CACGAGTCCGCGAGATGAGCCCTCAATCAACATAAGGACATGTTGACTCAGGCC	187
Qy	205	TCTGTGATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG	264
Ds	188	TCTCCATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG	247
Qy	265	ATTCCTGAACATGAACAGAGGCTGACTATGAGACCAAACTTGAGACCTTACAAA	324
Ds	248	ATTCCTGAAGCTGGAAGGAGGCTGAAATAGAGGCAAACTTGAACCTTCAAA	307
Qy	325	AATGCTGATGTTGTTGAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG	384
Ds	308	AAGCTGATGTTGTTGATCAACACAGGCTCTAGGCAATGATGAGCCCTTACACCGA	367
Qy	385	CAGATGGCACTGTGGAGAGAGGCTGAAGGATCCACTTCTGATTTTCAATGGA	444
Ds	368	CATATAGGAGCATGTGGAGAAAGGGATCAGGATTCACCTGACTTCTTCTTAGCA	427

Qy	445	GGAAAAAGTTAGCTGAATATGGACCACAAAGTAGGGCATTTGTCCATGAGTGGGCTCAT	504
Ds	428	GGAAAGAGCTGAGCTAGTATGGGCCAACAGACAGGACCTTTGTCCATGAGTGGGCTCAC	487
Qy	505	CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATCTACTTATCCAAATGA	564
Ds	488	TTCCGATGGGAGTGTTTAATGATACAAACACGAGAGATTTCTACTTATCCAAATGA	547
Qy	565	AGAAATACAGCAGTAAGATGTTACGAGGTATTTACTGTACAAATGTTAGTAAAGAGTGT	624
Ds	548	AAACCCCAAGCAGTGAGGTGTTACGAGCCATTACCGGTAAATAATCAAGTTCTGTCGGTGC	607
Qy	625	CAGGAGGCGAGCTGTTTACACCAA---AAGATGCACATTCATTAAGTAAAGGACTCTAT	681
Ds	608	CAGGAGGCGAGTGTATCACTAACCGAAAGTGTGTAATCGACAGATTAACGGGACTGTAT	667
Qy	682	GAATAAGGATGTGAGTTTGTCTCCAATCCCGCCAGACGAGAGAGGCTTCTATATGTTT	741
Ds	668	AAAGCAATGTTGTTTGTATACCATCCACCAAAACGAGAGGCTTCCATCATGTTT	727
Qy	742	GCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACCAACAAAGAGCT	801
Ds	728	AACCAAAATATCAATTTCTGTGTTGAATTTCTGTACAGAAATAATCAAAATCAAGAGCC	787
Qy	802	CCAAACAGCAAAATCAAAATGCAATCTCCGAGCACATGGGAGTATCGGTGATTTCT	861
Ds	788	CCAAATGACCAAAACCAACGATGCAATCTCCGAGCACATGGGAGTATCGGTGATTTCT	847
Qy	862	GAGGACTTTAAGAAAAACCACTCTTATGACAAACAGACCCACCAATCCCACTTCTCATGTG	921
Ds	848	GAGGACTTTAAGCAAAACCACTCTTATGACAAACAGACCCACCACTTCTCATGTG	907
Qy	922	CTGCAGATTGACAAAGAAATGTTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG	981
Ds	908	CTGCAAAATGACAAAGAAATGTTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG	967
Qy	982	GGTAACCGCTTCAATTCGATCAATCAAGCGGCGCTTTCCTGCTGACACAGTTTCTGAG	1041
Ds	968	GATGATCTGTTTAAACCGAAATGAATCAGCAAGCGGCTTTCCTGCTGACACAGTTTCTGAG	1027
Qy	1042	CTGGGGTCTCTGGGTTGGGATGTTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCTC	1101
Ds	1028	CAGGATCTCTGGTTCGGGATGTTGACATTTGACAGTGTGCTGCTATGTATACAAAGCACTC	1087
Qy	1102	ATACAGATAAACAGTGGCAGTGACAGGACACACTGCGCAAAAGATTAACCTGACAGCT	1161
Ds	1088	AAACAGTTAAACAGTGGTGTGACAGAGATCTGCTGATCAAGCACTTACCCACAGTATCT	1147
Qy	1162	TCAGAGGAGCGTCCATCTGACGCGGCTTCCGATCGGCAATTTACTGTGATTTAGGAGAAA	1221
Ds	1148	GCAGAGGAGCATCTATATGCTCTGGCCCTTCGGACAGCAATTTACAGTATTAAGAGAAAG	1207
Qy	1222	TATCCAACTGATGATCTGAAATTTGTGCTGCTGAGCGATGGGAGAGCAACACTATAGT	1281
Ds	1208	TATCCAACTGATGATCTGAAATTTGTGCTGCTGACCGATGGGAGGACAAACACTATAGC	1267
Qy	1282	GGTGTCTTTAAGAGGTCAAAACAAAGTGGTGGCTCATCCACACAGTGGCTTTGGGGGCC	1341
Ds	1268	AGCTGTCTTGAACCTGGTGAAGCAGAGCGGGGCCATCATCCATACAGTGGCCCTGGGACCG	1327
Qy	1342	TCTCAGCTCAAGAACTAGAGGAGCTGCCAAATGACAGAGGTTTACAGACATATGCT	1401
Ds	1328	CTGCGCGTAAAGAGCTTGAAGAGCTGTTCCAAATGACAGAGGCTGACACATATCTCT	1387
Qy	1402	TCAGATCAAGTTCAAGCAATGGCTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAAT	1461
Ds	1388	TGGATCAGGTTCAAGCAATGGCTTTGATGCTTTTGGGAGCACTCTCTCTCAGGAAAT	1447
Qy	1462	GGAGCTGTCTCAGCGCTCCATCCAGCTTGAAGTAAAGGATTAACCTTCAGACAGC	1521
Ds	1448	CGCGGATCGCTCAGCACTCCATCCAGCTGAGAGAGGAGGAGTTAATCTCCAGAAATAC	1507

1522 CAGTGGATGAATGTCACAGTGTGTCGACACACCGTGGGAAGGACACATTGTTCTT 1581  
1508 CAATGGATGAATGCTCAGTGTGTCGACAGCTCGTGGGACAGGACACCTTGTTCTT 1567  
1582 ATCACTGGACAAGCGACGCTCCCAATCTCTCTGGGATCCCAAGTGGACAGAA 1641  
1568 ATCACTGGACAAGCGACGCTCCCAATCTCTCTGGGATCCCAAGTGGAGGAGGAA 1627  
1642 GGTGGCTTTGAGTGGACAAACACCAAAATGGCTTACCTCCCAATCCAGGCAATGCT 1701  
1628 AATGGTTTTTACTAGACAAACCACTAAGTGGCTTACCTCCCAAGTGGAGGACGCT 1687  
1702 AAGTTGGCACTTGGAAATACAGTGTCAAGCAAGCTCACAAACCTTGACCTGACTGTC 1761  
1688 AAGTTGGCTTTTGGAAATACAGATTCAGGGAGCTCACAGACTCTCACCTTGACTGTC 1747  
1762 ACGTCCCGTGGCTCAATGCTTACCTGCTCCCAATTCAGTGACTTCCAAACAGCAAG 1821  
1748 ACCTCCCGTGGCAAGTGTCTACACTGCTCTCTATTACAGTGACCCCGTAGTGAATAG 1807  
1822 GACACCGCAATTCGCCAGCCCTCTGTAGTATGCAATATTCGCCAAGGAGCCTCC 1881  
1808 AACACAGGAAATTCGCCAGCCCTGTAAACAGTGTATGCAAGATTCGCCAAGGAGCCTCG 1867  
1882 CCAATTTCTCAGGGCCAGTGTCCACAGCCCTGATTCAGTGAATGGAATAACAGTACCT 1941  
1868 CCTATTCTCAGGGCCAGGTCACAGCTTGTATGATCTGAAATGGAATAACAGTACCT 1927  
1942 TTGAACTACTGGATAATGAGGAGGCTGCTGATCTACTAAGGATGACGGTGTCTACTCA 2001  
1928 CTGGAATTACTGGATAACCGGAGCAGGTCCGATGCCCAAGATGATGGTGTCTACTCA 1987  
2002 AGGTATTTCACAACTTATGACAGCAATGTTAGATACAGTGTAAAGTCGGGCTCTGGGA 2061  
1988 AGGTTTTTTTACAGCTTTTGTATGCAATGTTAGTACAGCGTTAAATATGCGCTCTGGGA 2047  
2062 GGAGTTAACCGCAGCAGCAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCT 2121  
2048 GGAGTCACTTCAGACAGACAGAGCAGCAGCTCGAAGAACAGAGCCATGTATAGAT 2107  
2122 GGCTGGATGGAATGAATAAATCAATGGAATCCACCAAGCCTGGAATTAATAAGGAT 2181  
2108 GGCTGGATGGAATGGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGA 2161  
2182 GATCTTCAACACAGCAAGTGTGTTTACGACAGACATCTCGGAGGCTCATTTGTGGCT 2241  
2162 TATGTTCAAGACAGCAGCTGTGTTTACGACAGGACATCTTCAGGGGAGTCTGTTGGGCC 2221  
2242 TCTGATGTCC---CAAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCAGCGAC 2298  
2222 ACCAATGTCCCGCAGCAGCTCCCATCTCTGACCTCTTTCACCTGTCAAAATCACTGAC 2281  
2299 CTGAAGGGGAAATTCACGGGGGAGTCTCAATTAATCTGATTTGGACAGCTCTCTGGGAT 2358  
2282 CTGAAGGCCAGCATCCCAAGGGCAGAACCTGTTGATCTGACGTGGAACGCTCTCTGGGAT 2341  
2359 GATTATGACCATGACAGCTCAAGATATATATTCGAATTAAGTACAGTATCTTGAT 2418  
2342 GACTACACCAACGGGAGAGCTTCAACACTACATATCCGAATGAGCAACAGTATCTTGAT 2401  
2419 CTCAGAGACAAGTTTCAATGAATCTCTTCAAGTGAATACATCTGCTCTCATCCCAAGGAA 2478  
2402 CTCAGGAGCACTTCACACCTCACTCAAGTGAACACTACCGTCTTATATCCCAAGAG 2461  
2479 GCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTAATTTTGAATATGGCACA 2538  
2462 GCCAGCTCTGAGGAAATCTTTGAGTTTGAATGAGTGGAGGCAACACTTTTGAATGGCACA 2521  
2539 GATCTTTTCATGCTATTCAGGCTGTTGATTAAGTGTGATGAAATCAGAAATATCCAAAC 2598  
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2599 ATTGCAGAGTATCTTTGTTTATCTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGAT 2658

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2779 TTTGTCAGATAAATAAATAAATCATTCATCTCTTTTTCATTTATTAATAATTTCTAAAA 2838  
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2839 TGTATTTTAGACTTCTGTAGGGGGCGATATACTAA 2874  
2805 TGTACTTTAGACTTCTGTAGGGGGCGTATAGTAA 2840

RESULT 6  
US-10-270-595-1  
; Sequence 1, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-10-270-595-1

Query Match 59.1%; Score 1764; DB 4; Length 2931;  
Best Local Similarity 77.5%; Pred. No. 0;  
Matches 2212; Conservative 0; Mismatches 615; Indels 29; Gaps 5;  
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8 ATGGAATCTTTGAAGAGTCTGTCTTCTTGTATCTCTCCACCTTCTGGAAGGAGTTCTG 67  
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Db 488 TTCCGATGGGAGTGTAAATGAATACAAACAGCAGGAAATTTCTACTTATCCAAAGGA 547  
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Qy 922 CTGCAATGGAACAAGAAATGTGTGTTTGTAGTTCCTTGAATCTGGAAGCATGCGACT 981  
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Qy 982 GGTAAACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGACAGACTTTGAG 1041  
Db 968 GATGATCGTCTTAACCGAATGAATCAGGCAAGCCCGCTTTTCTGCTGCAGACTGTGGAG 1027  
Qy 1042 CTGGGCTCTGGGTTGGATGTGACATTTGACAGTGTGCCATGTTACAAAGTGAATC 1101  
Db 1028 CAGGATCTCTGGGTCGGATGTGACCTTTTGAAGTGTGCTGCTATGTATCAAGCGAATC 1087  
Qy 1102 ATACAGATTAACAGTGGCAGTACAGGAGACACTCGCCAAAGATTTACCTCAGCAGCT 1161  
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Qy 1162 TCAGGAGGAGCTCCATCTGACCGGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAA 1221

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Qy 1282 GGGTCTTTTACGAGGTCACAAAGTGTGCCATCATCCACACAGTCTGCTTTTGGGGCC 1341  
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Qy 1342 TCTCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCT 1401  
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Qy 1402 TCAGATCAGTTTCAAGCAATGGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGAAAT 1461  
Db 1388 TCGATCAGTTCAGAACAAATGGTCTTGTATGCTTTTCGAGCACTCTCTCAGGAAT 1447  
Qy 1462 GGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAAGGATTAACCTCCAGAACAGC 1521  
Db 1448 GCGGGATCTGCTCAGACTCCATCCAGCTGAGAGCAGGAGTTAATCTCCAGATTAAC 1507  
Qy 1522 CAGTGGATGAATGACACAGTCTGTCGACAGCACCGTGGGAAAGGACATTTTGTCTT 1581  
Db 1508 CAATGGATGAATGGCTCAGTCTGTCGACAGCTCGTGGGCAAGGACACCTTGTCTT 1567  
Qy 1582 ATCAGCTGGACAAACGAGCTTCCCAATCTTCTGGGATCCAGTGGACAGAACAA 1641  
Db 1568 ATCAGCTGGACAAACGAGCTTCCCAATCTTCTGGGATCCAGGAGTGGAAACAA 1627  
Qy 1642 GGTGCTTTGTAGTGGACAAAAACCAAAAATGGCTACCTCCAAATCCAGGCAATGCT 1701  
Db 1628 AATGTTTATCTAGACACAAACCACTTAAGTGGCTTACTTCCAACTCCAGGCAAGCT 1687  
Qy 1702 AAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTC 1761  
Db 1688 AAGTGGCTTTTGGAAATACAGCATCAAGCGAGCTCACAGACTCTCACCTTGACTGTC 1747  
Qy 1762 ACGTCCGCTGGTCCAATGCTACCTGCTCCATTCAGTACAGTCTTCCAAACAGAACAG 1821  
Db 1748 ACCTCCGCTGAGCAAGTGTACACTGCTCCTTATACAGTACCCCGTGTGTAATAG 1807  
Qy 1822 GACACACAAATTCGCCAGCCCTCTGGTGTATGTAATATTCGCAAGGAGCCCTCC 1881  
Db 1808 AACACAGGAAATTTCCCGAGCCCTGTACAGTGTATGCAAGCATTCGCCAGGAGCCCTG 1867  
Qy 1882 CCAATTTCTAGGCGCAAGTGTCAAGCCCTGATTAATCAGTGAATGGAAGAAACAGTTACC 1941  
Db 1868 CTTATTTCTAGGCGCAGGCTCACAGCTTGAATCTGTAATCTGTAATGGAAGAAACAGTAAAC 1927  
Qy 1942 TTGNACTACTGGATTAATGGAGCAGGCTGCTGATGCTACTAGGATGACGGTGTCTACTCA 2001  
Db 1928 CTGGAATTTACTGGATTAACGAGCAGGCTCCCATGCAACCAAGATGATGGTGTCTACTCA 1987  
Qy 2002 AGGTATTTTCAAACTTTATGACACGAATGGTATAGATACAGTGTAAAAGTGGGGCTCTGGGA 2061  
Db 1988 AGGTTTTTACAGCTTTTGTATGCAAAATGGTATAGATACAGCTTTAAATATGGCTCTGGGA 2047  
Qy 2062 GGAGTTAACGAGCCAGACGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCT 2121  
Db 2048 GGAGTCACTTCAGACAGACAGAGCAGCAGCTCCGAAGAACAGAGCCATGTACATAGAT 2107  
Qy 2122 GGCTGGATGAGATGATGAATCAATGGAATCCACCAAGACCTGAAATTAATAAGAT 2181  
Db 2108 GGCTGGATGAGGATGGTGAAGTGAATGAATGAACCCACCGTCTCTGAAACTA-----GT 2161  
Qy 2182 GATGTTCAACACAAAGTGTGTTTACGACAGAACATCTCGGGAGGCTCATTTTGTGGCT 2241  
Db 2162 TATGTTCAAGACAGCAGCTGTGCTTACAGGACATCTTCAGGGGATCGTTTGTGGCC 2221  
Qy 2242 TCTGATGTC---CAATGCTCCCATCTGATCTCTTCCACCTGGCCCAATCACCAGC 2298  
Db 2222 ACCAATGTCCCGCAGCAGCTCCCATCTCTGACCTTTCTCCACCTGTCAAAATCACTGAC 2281

Qy	2299	CTGAAGCGGAAATCTCAGGGGCGAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGGAT	2358
Db	2282	CTGAAGCCAGCATCCAAGGCGAGAACTCGTGAATCTGACGTGGACGGCTCTCTGGGAT	2341
Qy	2359	GATTTATGACCATGGAAACAGCTCAAGATATATCATTCGAATAGTACAAGTATCTTTGAT	2418
Db	2342	GACTACGACACCGGAGAGCTTCCAACATACATCATCCGAATGAGCACCAGTATCGTTGAT	2401
Qy	2419	CTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGGAA	2478
Db	2402	CTCAGGACCACTTCAACACTCACTCCAAGTGAACACTACCGGTCTTATCCCAAAGAG	2461
Qy	2479	GCCAACTCTCAGGAAGCTTTTGTTTAAACCGAGAAACAATTACTTTTGAAAATGCGACA	2538
Db	2462	GCCAGCTCTCAGGAAATCTTTGAGTTTGAACCTGGAGGCAACACTTTTGGAAATGCGACA	2521
Qy	2539	GATCTTTTCATTGCTATTTCAGGCTGTGTGATAAGTTCGATCTGAATCAGAAATATCCAAC	2598
Db	2522	GATATCTTCATTGCTATCCAGGCTGTGGATAAGTCCAACTCGAAATCAGAAATCTCCAAC	2581
Qy	2599	AATTGCACGAGTATCTTTGTTTATTTCCTCCACAGACTCCGCGACGAGACACTAGTCTCTGAT	2658
Db	2582	AATTGCAGGGTGCTGTGTTTCATCCCGCTCAG-----GAGCGGCCCATCTCCGAA	2632
Qy	2659	GAACCGTCTGCTCCTTGTCCTAATATTCATCAACAGACACCAATTCCTGGCATTCACATT	2718
Db	2633	GACTCAACTCCCGCTGTCTTGACATCAGCATCAACAGCACCACTTCTGGCATCCACGTG	2692
Qy	2719	TTAAAAATTATGTGGAGTGGATAGGAGACTGCAGCTGTCAATAGGCTTAGGCGCTGAATT	2778
Db	2693	CTGAAGATAATGTGGAGTGGCTAGGGGAATGCAGTGACACTAGGTTTGGCACTGAATT	2752
Qy	2779	TTTGTGAGATAAATAAATAAATCAATTCATCCCTTTTTTTTGGATTATATAAATTTTCTAAAA	2838
Db	2753	TTTCAGGCAAGAAATCAACCA-----GTCACTTCCTTTCACCTGGAGATTTTCTAAAA	2804
Qy	2839	TGTATTTTACATTCCTGTAGGGGGGAGATATACTAA	2874
Db	2805	TGTACTTTAGACTTCCTGTAGGGGGGGTATAGTAA	2840

RESULT 7  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:

Qy 2081 GGAGGTGATACCCAGAGAGTGGACACCTGTATACATCTGGCTGGATTGAGATGATG 2140  
Db |||||  
Qy 781 GGAGGTGATACCCAGAGAGTGGACACCTGTATACATCTGGCTGGATTGAGATGATG 840  
Db |||||  
Qy 2141 AAATACATGAATCCCAAGAGCTGAAATTAATAAGGATGATTTCAACACAGCAAG 2200  
Db |||||  
Qy 841 AAATACATGAATCCCAAGAGCTGAAATTAATAAGGATGATTTCAACACAGCAAG 900  
Db |||||  
Qy 2201 TGTGTTTCCAGAGAACTCTGGGAGCTCATTTGTGGCTTCTGATGTCCTCAATGTC 2260  
Db |||||  
Qy 901 TGTGTTTCCAGAGAACTCTGGGAGCTCATTTGTGGCTTCTGATGTCCTCAATGTC 960  
Db |||||  
Qy 2261 CCATCTCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAGCGGAAATTCACGGG 2320  
Db |||||  
Qy 961 CCATCTCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAGCGGAAATTCACGGG 1020  
Db |||||  
Qy 2321 GCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTTATGACCATGGAACAGTC 2380  
Db |||||  
Qy 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTTATGACCATGGAACAGTC 1080  
Db |||||  
Qy 2381 ACAAGTATATCAATCGAATAGTACAAGTATCTTGTATCTCAGACACAGTTCAATGAAT 2440  
Db |||||  
Qy 1081 ACAAGTATATCAATCGAATAGTACAAGTATCTTGTATCTCAGACACAGTTCAATGAAT 1140  
Db |||||  
Qy 2441 CTCTTCAAGTGAATCTCTCTCATCCCAAGGAAAGCCAACTCTGAGGAAGTCTTTT 2500  
Db |||||  
Qy 1141 CTCTTCAAGTGAATCTCTCTCATCCCAAGGAAAGCCAACTCTGAGGAAGTCTTTT 1200  
Db |||||  
Qy 2501 TGTGTTTAAACCCAGAAACATTAATCTTTGAAATGGACAGATCTTTTCAATGCTATCAGG 2560  
Db |||||  
Qy 1201 TGTGTTTAAACCCAGAAACATTAATCTTTGAAATGGACAGATCTTTTCAATGCTATCAGG 1260  
Db |||||  
Qy 2561 CTGTTGATAGGTGATCTGAAATCAGAAATATCAACATTCACAGATGATCTTTGTTTA 2620  
Db |||||  
Qy 1261 CTGTTGATAGGTGATCTGAAATCAGAAATATCAACATTCACAGATGATCTTTGTTTA 1320  
Db |||||  
Qy 2621 TTCTTCCAGAGCTCCGACAGAGACCTAGTCTGATGAAAGCTCTGCTCTGCTCTA 2680  
Db |||||  
Qy 1321 TTCTTCCAGAGCTCCGACAGAGACCTAGTCTGATGAAAGCTCTGCTCTGCTCTA 1380  
Db |||||  
Qy 2681 ATATTATATATCAAGACCAATCTCTGGCAATTCACATTTTAAAAATATGTTGAAGTGA 2740  
Db |||||  
Qy 1381 ATATTATATATCAAGACCAATCTCTGGCAATTCACATTTTAAAAATATGTTGAAGTGA 1440  
Db |||||  
Qy 2741 TAGGAGACTGAGCTGCTCAATAGCTAGGCTGATTTTGTGATGAAATTAATTAATA 2800  
Db |||||  
Qy 1441 TAGGAGACTGAGCTGCTCAATAGCTAGGCTGATTTTGTGATGAAATTAATTAATA 1500  
Db |||||  
Qy 2801 TCATTCATCCTT 2812  
Db |||||  
Qy 1501 TCATTCATCCTT 1512  
Db |||||

## RESULT 8

US-09-049-698-16

; Sequence 16, Application US/09049698

; Patent No. 6368792

## ; GENERAL INFORMATION:

; APPLICANT: BILLING-MEDEL, PATRICIA A.

; APPLICANT: COHEN, NAURICE

; APPLICANT: COLPITTS, TRACEY L.

; APPLICANT: FRIEDMAN, PAULA N.

; APPLICANT: HAYDEN, MARK

; APPLICANT: KLASS, MICHAEL R.

; APPLICANT: ROBERTS-RAPP, LISA

; APPLICANT: RUSSELL, JOHN C.

; APPLICANT: STROUPE, STEPHEN D.

; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

; NUMBER OF SEQUENCES: 51

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Abbott Laboratories

STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16

Query Match 43.9%; Score 1308.6; DB 3; Length 3043;

Best Local Similarity 69.6%; Pred. No. 0;

Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;

Qy 21 AGCAATGGGCAATTAAGAGTTCTGTTTCATCTTGTATCTTCACTTCTAGAGGGGC 80  
Db |||||  
Qy 10 AACATGGGTTTACAGAGTTTGTCTTCTTAGTCTGTCCTGTCACCAATC 69  
Db |||||  
Qy 81 CCGTGAATTAATCACTATTCACTGAGCAACAATGGCTATGAAGCATTTGCTGCAAT 140  
Db |||||  
Qy 70 ---AAATCTCTCTTCAATTAAGCTGAATAATGGCTTGAAGATAATGTCATTGTTAT 126  
Db |||||  
Qy 141 CGACCCCAATGTCGAGAGATGAACACTCATTCACAAATAAGGACATGTCACCA 200  
Db |||||  
Qy 127 AGATCTAGTGTGCCAGAGATGAAAAAATAATTGAACAAATAGAGGATATGCTGACTAC 186  
Db |||||  
Qy 201 GGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTATTTTCAAAAATGTTGCCAT 260  
Db |||||  
Qy 187 AGCTTCTAGTACCTGTTTGAAGCCACAGAAAAAGATTATTTTCAAAAATGTTATCTAT 246  
Db |||||  
Qy 261 TTTGATTCCTGAACATGGAAGCAAAAGGCTGACTATGTGACACAAATTTGACACCTA 320  
Db |||||  
Qy 247 ATTAATTCCTGAGAAATGGAAGGAAATCTCAGTACAAAAGGCGCAAAACATGAAACCA 306  
Db |||||  
Qy 321 CAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTATGATGACCCCTACAC 380  
Db |||||  
Qy 307 TAAACATGCTGATGTTATAGTTGACCACTTCCAGGTAGAGATGAACCATACAC 366  
Db |||||  
Qy 381 TGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCACTCTGTTTCAAT 440  
Db |||||  
Qy 367 CAGCAGTTTACAGAAATGTTGAGAGAAAGGCAATACATTCATCTCACTGACCTTCT 426  
Db |||||  
Qy 441 TGCAGAAAAAAGTTAGCTGAATATGACCAACAAGGTAGGGCATTTGTCATGAGTGGGC 500  
Db |||||  
Qy 427 ACTTGAAAAAACAATAATGAATATGACCAACAGGCAAACTGTTTGTCCATGAGTGGGC 486  
Db |||||  
Qy 501 TCATCTAGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAA 560  
Db |||||  
Qy 487 TCACCTCGGTGGGAGTGTGTTGATGAGTACAAATGAAGATCAGCCTTTTCTACCGTCTAA 546  
Db |||||





US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: KLUSS, MICHAEL R.  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.PI  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-09-049-698-18  
Query Match 43.9%; Score 1308.6; DB 3; Length 3181;  
Best Local Similarity 69.6%; Pred. No. 0;  
Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;  
QY 21 ACNATGGGCGCATTAAGAGTCTGTGTCTCATCTGTATCTTCCATCTAGAGGGGC 80  
DB 21 AACAAATGGGGTATTACAGAGGTTTTTTTCTCTTAGTTCTGTGCGCTGCACAGTC 80  
QY 81 CCGTGAATATTCATTCATTCAGCTGAACAACTATGCTATGAGGCAATGTCGTCGAAT 140  
DB 81 ---AAATCTCTCTTCATTAAGCTGATTAATTAATGCTTTGAAGATATTGTCTATTAT 137  
QY 141 CGACCCCAATGCGCAGAGATGAACACTCATTCATTAACAAATTAAGGACATGTTGCCCA 200  
DB 138 AGATCTCTGTGTGCGCAGAGATGAACAAATTAATTAAGGATATGTTGACTAC 197  
QY 201 GCATCTCTGTATCTCTTTGAAGCTACAGGAGGCGATTTTATTTCAAAAATGTTGCCAT 260  
DB 198 AGCTTCTACGACCTGTTTGAAGCCACAGAAAAGATTTTTTTTCAAAAATGTTCTAT 257  
QY 261 TTTGATTCTTGAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTA 320  
DB  
258 ATTAATTCCTGAGAAATGGAAGGAAATCCCTCAGTACAAAAGGCGCAAAACATGAAACCA 317  
QY 321 CAAAAATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTATGATGATGACCTACAC 380  
DB 318 TAAACATGCTGATGTTATAGTTGCACCACCTACACTCCCGGTAGAGATGAACCAATACAC 377  
QY 381 TGACGAGATGGCAACTGTGAGAGAGAGGTGAAGAGATCCACCTCCTCCTGATTTTCAAT 440  
DB 378 CAAGCAGTTACAGAAATGTTGAGAGAGAGGGAATACATTCACTTCACTCCCTGACCTTCT 437  
QY 441 TGCAGGAAAAAGTTAGCTGAATATGGACCAACAGGTAGGGCATTTGTCATGATGGGC 500  
DB 438 ACTTGAAAAAAAACAAAAATGAATATGGACCAACAGGCAAACTGTTGTGTCATGAGTGGC 497  
QY 501 TCACTAGATGGGAGGATTTTGGACGATCAATTAATGATGAGAAATTTCTACTTATCCAA 560  
DB 498 TCACCTCGGTGGGAGGTGTTGATGAGTCAATGAAGATCAGCCTTTCTACCGTGCTAA 557  
QY 561 --TGGAAAGATACAAGCAGTAAGATGTTACGAGGTATTACTGTGACAAATGTAGTAAA 617  
DB 558 GTCAAAAAAATCGNAGCAA CAAGGTGTTCCGAGGTATCTCTGTAAGAAATAGATTTA 617  
QY 618 GAAGTGTCAAGGAGGCGAGCTGTTACACAAAGATGCAATTCATAAAGATTAACAGGACT 677  
DB 618 TAAGTGTCAAGGAGGCGAGCTGTTACAGTGTGAGCAGTGTGATGATGATGATGATGAT 677  
QY 678 CTATGAAAAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 737  
DB 678 GTATGAAAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 737  
QY 738 GTTTGCAACAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACCAACAA 797  
DB 738 GTTTATGCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 797  
QY 798 AGCTCCAAACAGCAAAATCAAAATCAAAATCAAAATCAAAATCAAAATCAAAATCAAA 857  
DB 798 AGCTCCAAAGCCTACAAAACATAAAGTGCAATTTTGAAGATGATGAGGAGGTGATGAC 857  
QY 858 TTCTGAGGATTTTAAAAACACCATCCATCCATCCATCCATCCATCCATCCATCCATCC 917  
DB 858 TTCTGAGGATTTTAAAAACACCATCCATCCATCCATCCATCCATCCATCCATCCATCC 917  
QY 918 ATTGCTGAGATTTGACAAAGAAATGTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 977  
DB 918 ATTGCTGAGATCACTCAAGAAATTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 977  
QY 978 GACTGTTAACCGCCTCAATTCGAATCAAGCAGGCGAGCTTTTCTGCTGCGACAGT 1037  
DB 978 GGGTAAGGACCGCCTAAATCGAATGAATCAAGCAGCAAAACATTTCTCTGCTGAGACT 1037  
QY 1038 TGAGCTGGGTCTCTGGTTGGATGTTGACATTTGACAGTGTGCTGCTGCTGCTGCTGCTG 1097  
DB 1038 TGAATAATGATCTCTGGTGGGATGTTGATGATGATGATGATGATGATGATGATGATGAT 1097  
QY 1098 ACTCATACAGATAAAACAGTGGCAGTGACAGGAGACACATCGGCAAAAGATTAACCTGC 1157  
DB 1098 GCTAATCCAAATTAAGAGCAGTGAAGAAAGAAACACATCATGCGGAGGATTAACCTA 1157  
QY 1158 AGCTTCAGAGGAGCGTCCATCTGAGCGGGCTTTCGATCGGCAATTTCTGCTGATGAGAA 1217  
DB 1158 TCCTCTGGGAGGAACTTCCATCTGCTGGAATTAATATGCAATTTGAGTGAATGGAGA 1217  
QY 1218 GAAATAT---CCAACTGATGATCTGAAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1274  
DB 1218 GCTCAATTCCTCAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1277  
QY 1275 TATAAGTGGGTCTTTTAAACGAGGTCAAAACAAAGTGTGCTGCTGCTGCTGCTGCTGCT 1334  
DB 1278 TGCAAGTTCTTCTGTTATGATGAAGTGAACAAAGTGGGGCCATTTGTTCAITTTTAT 1337  
QY 1335 GGGGCGCTCTGACGCTCAAGAACTAGAGGAGCTGTCCAAATCAACAGGAGGTGTTACAG 1394

Db 1338 GGAAGAGCTGCTGATCAAGCAGTAATAGAGATGAGCAAGATAACAGGAGGAAGTCATT 1397  
QY 1395 ATATGCTTCAGATCAAGTTTCAGAACAAATGSCCTCATTTGATGCTTTTGGGGCCCTTTCATC 1454  
Db 1398 TTAGTTTTCAGATGAAGCTCAGAACAAATGGCCTCATTTGATGCTTTTGGGGCTCTTACATC 1457  
QY 1455 AGGAATGGAGCTGCTCTCAGCGCTCCATCAGAGCTTGAGAGTAAGGGATTAACCCCTCCA 1514  
Db 1458 AGGAATACTGATCTCTCCAGAGTCCCTCAGCTCGAAGTAAGGGATTACACTGAA 1517  
QY 1515 GAACAGCCAGTGAATGAATGGACAGTGAATGCGGACAGACCGTGGGAAAGACACTTT 1574  
Db 1518 TAGTAATGCTTGGATGAAGCAGACTGTCTATAATTGATAGTACAGTGGGAAAGCAGCTT 1577  
QY 1575 GTTTCCTTATCAGCTGACAGACGAGCTCCCAAAATCCTCTCTGGATCCAGTGGACA 1634  
Db 1578 CTTTCTCATCATGGAACAGCTGCTCTCCAGTATTTCTCTGGGATCCAGTGGAAAC 1637  
QY 1635 GAAGCAAGTGGCTTTGTAGTGACAAAAACACAAAATGGCTCCTCCAAATCCAGG 1694  
Db 1638 AATAATGGAAAAATTCACAGTGGATGCAACTTCCAAAATGGCTATCTCAGTATTCAGG 1697  
QY 1695 CATTGCTAGTGGCTGCACTTGAATAATAGTCTGC-----AAGCAAGCTCAAAACCTT 1748  
Db 1698 AACTGCAAGGTGGGCACTTGGGCATACAAATCTTCAAGGCCAAAGCGAAACCCAGAAACAT 1757  
QY 1749 GACCTGACTGTCAGCTCCCGCGCTCCAAATGCTACCTGCTCCAAATTACAGTGAATTC 1808  
Db 1758 AACTATACAGTAACCTCTCGAGAGCAAAATCTCTGTCGCTCCAAATCAGAGTGAATGC 1817  
QY 1809 CAAAACGAACAGGACACCCAGCAAAATTCGCCAGCCTCTGGTAGTTTATGCAAAATTCG 1868  
Db 1818 TAAATGAATAAGGACGTAACAGTTTCCAGAGCCCAATGATGTTTACGAGAAATCTT 1877  
QY 1869 CCAAGGAGCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATTTGAATCAGTGAATGG 1928  
Db 1878 ACAAGGATATGATGCTGTTTGGAGCAAAATGTGACTGCTTTCATTGAATCACAGATGG 1937  
QY 1929 AAAACAGTTACTTGGAGTACTGGAATATGGAGCAGTGTGATGCTTACTTAAGATGA 1988  
Db 1938 ACATACAGAAATTTGGAACTTTTGGAAATGTTGAGCGCGCTGATCTTTTCAAGAAATGA 1997  
QY 1989 CGGTGCTTACTCAAGTATTTTCAACAATGATGACACGAATGTTAGATGATGATGATAAGT 2048  
Db 1998 TGGAGTCTACTCCAGTATTTTACAGCATATACAGAAATGCGAGATAGCTTAAAGT 2057  
QY 2049 GCGGCTCTGGAGAGTTTACGAGCCAGAGAGTGAATACCCAGCAGAGTGGAGC 2108  
Db 2058 TCGGCTCATGGAGAGCAACACTGCCAGGCTAAATTTACGGCTCCACTGAATAGAGC 2117  
QY 2109 ACTGTACATACCTGCTGATTTGAGAATGATCAATACAAATGATGATGATGATGATGATG 2168  
Db 2118 CGCGTACATACAGGCTGGGTAGTGAACGGGAAATTTGAAGCAACCCGCGCAAGACCTGA 2177  
QY 2169 AATTAATAGGATGATTTTAAACAACAAGCAAGTGTGTTTACAGCAACATCTCTGGAGG 2228  
Db 2178 AATTGAT---GAGGATCTCAGACCACTTGGAGATTTACGCGCAACAGCATCGGAGG 2234  
QY 2229 CTCATTTGCTGCTTGTGATGCTCCAAATGCTCCCATACCTGATCTTTCCACCTGGCCA 2288  
Db 2235 TGCATTTTGTGATACACAAGTCCCAAGCTTCCCTTGGCTGACCAATACCCCAAGTCA 2294  
QY 2289 AATCACCGACTGAGGCGGAATTCAGGGGCGAGTCTCAATTAATCTGACTTGGACAGC 2348  
Db 2295 AATCACAGACCTTGTATGCCAGTTTCATGAGG---ATAAGATTATTTCTTACATGACAGC 2351  
QY 2349 TCCTGGGATGATTAATGACCAATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAG 2408  
Db 2352 ACCAGGATTAATTTGATGTTGGAAAGTTCAACGTTATATCATAGAAATGAGTGAAG 2411  
QY 2409 TATTCTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCAT 2468  
Db 2412 TATTCTTGATCTAAGAGACAGTTTGTGATGATGCTCTTCAAGTAAATACTACTGATCTGTC 2471

## RESULT 10

US-09-193-562D-1

; Sequence 1, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193.562D

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065.922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 1

; LENGTH: 3317

; TYPE: DNA

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated

; OTHER INFORMATION: protein from bovine endothelial cells

US-09-193-562D-1

## Query Match

Best Local Similarity 30.2%; Score 900.2; DB 3; Length 3317;

Matches 1635; Conservative 0; Mismatches 978; Indels 48; Gaps 10;

QY 5 TCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCGTGTTCATCTTGTATCTTC 64

Db 43 TTACTGTAAATGTGCAAAATGGTCTCTCTGCTGAATGTTATCTGTTCTTAATCTTGC 102

QY 65 ACCTTTAGAGGGGCCCTGATTAATTCATCTATTCAGCTGAACAACTATGGCTATGAG 124

Db 103 ATCTTTGGCTGG---AATGAAAAGTTCAATGGTAAATTTGATTAACTGGGTATGATG 159

QY 125 GCATTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAAATAA 184

Db 160 GCATTGCTGTGCAATTAACCCCAAGTGTGCCAGAGATGAATAAACTCATTTGAAAACATA 219

QY 185 AGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGGATTTTATT 244

Db 220 AGGAAATGTTAATCTGAGCTTCTACTTACCTGTTTCATGCCCAACAAAGAGATTTATT 279

QY 245 TCAAAAATGTTGCCATTTGATTCCTGAAACATGGAAGACAAAGGCTGACTATGTGAGAC 304

Db 280 TCAGGAATGTGAGCATTTTAATCCAATGACCTGGAATCAAAATCTGAGTACTTCATAC 339

QY 305 CAAACCTTGAGACCTACAAAACTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTA 364

Db 340 CAAACCAAGAAATCATATGACCGAGATGTCATAGTTGCTTAATCCCTATCTAAATATG 399

QY 365 ATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACC 424

Db 400 GAGATGATCCCTATACACTTCAATATGGAAGGTGTGGAGAAAAGGAAATATATACATT 459

QY 425 TCACCTCGATTTCATTCAGGAAAAAGTTAGCTGTAATATAGGACCAAGTAGGGCAT 484  
Db 460 TTACTCCAAACTTCTTGTTGACTATAATAATTTCCACATCTATGGTCCCGAGCAGATAT 519  
QY 485 TTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGATGAGA 544  
Db 520 TTGTCATGAGTGGGCTCATCTCGCTGGGATATTTGATGAGTATATGTTGGACAGC 579  
QY 545 AATCTACTTATCC---AATGGAAGATACAGCAGTAAAGATGTTTCAGGAGTATTAATG 601  
Db 580 CATCTATATTTCCAGAAAGAACACTATTTGAAGCAACAAGATGTTTCAACTCATATTAATG 639  
QY 602 GTACAAATGTAG---TAAAGAGTCTCAGGAGGAGCTGTTTACACCAAAAGATGCACAT 658  
Db 640 GTATTAATGTGTTTTCAGAAATGCCCTGGAGGAGCTGTATATAAAGTCTTATCGAGC 699  
QY 659 TCAATAAAGTAAACAGGACTCTATGAAAAAGAGTGTGAGTGTGTTCTTCCAATCCGCCAGA 718  
Db 700 GTGACTCACAGACAGGCTGTATGAAGCAAAATGTACATTCCTTCCAAAAAATCCAGA 759  
QY 719 CGGAGAAGCTTCTATATATGTTTGGACAAACATGTTGATCTTATAGTTGAAATCTGTACAG 778  
Db 760 CTGCAAGGAATCCATTAATGTTTATGCCAAGTCTCCATTTCTGTGACTGAAATTTGTACAG 819  
QY 779 AACAAAACACAACAAAGAGCTCCAAACAAACAAATCCAAAAATGCAATCTCCGAAGCA 838  
Db 820 AAAAACAACAATACAGAGCTCCAAACCTTACAAAACHAATGTGCAATGTGCAAAAGCA 879  
QY 839 CATGGGAAGTATCCGCTGATCTGAGGACTTTAAGAAAAACCACTCCTATGACA-----A 892  
Db 880 CATGGAGTATATCATGAACTCTGTTGACTTTTCAGAAATACATCTCCATGACAGAAATGA 939  
QY 893 CACAGCACCAAATCCACCTTCTCATTTGCTCGAATTTGGACAAGAAATGTTGTTTAC 952  
Db 940 ATCCACCGACTCATCTACATTTTCATTTGCTCAAGTCCAAACAGCGGGTAGTCTGTTGG 999  
QY 953 TCCTTGACAAATCTGGAGCTGGAGCTGTAACCGCCTCAATCGACTGAATCAAGCAG 1012  
Db 1000 TACTTGATAAATCTGGAAGCATGCTGCAGAAAGACCGCTCTCTTTTCAATGAATCAAGCAG 1059  
QY 1013 GCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGCTCTGGGTGGGATGGTGAATTTG 1072  
Db 1060 CAGAACTATCTGATCAAGTTATTTGAAAAGGGATCTTTAGTTGGATGGTTACATTTG 1119  
QY 1073 ACAGTCTGCCATGTACAAAGTAACTCATCAGATTAACAGTGGCAGTGCAGGAGCA 1132  
Db 1120 ACAGTGTGCTGAAATCCAAATCATCTAACAGAAATAACTGATGATAATGTTTACAAA 1179  
QY 1133 CACTGCCAAAGATTTACCTGCAGCAGCTTCAGGAGGAGCTCATCTGCAGCGGCTTC 1192  
Db 1180 AGATCACCCAAACTGCTCTCAAGTACGTAATGTTGGAACTTCAATTTGTAGGGCTCA 1239  
QY 1193 GATCGGCATTTACTGTGATTAGGAAGA---AATATCCAACTGATGGATCTGAAATTTGTC 1249  
Db 1240 AAGCAGATTTCCAGGCAATATCCACAGTGACCAGAGTACTTCTGTTCTGAAATCATATC 1299  
QY 1250 TGCTGACGATGGGGAAGACAACATATAGTGGGTGCTTTTAAAGAGGTCAACAAGTG 1309  
Db 1300 TATTAATCTGATGGGAAGATAATGAAATAAAATTCATGCTTTGAGGATGTAAAAACGAAGTG 1359  
QY 1310 GTGCCATATCCACAGTCTGTTTGGGCGCTCTCGAGTCAAGAACTAGAGGAGCTGT 1369  
Db 1360 GTGCAATATCAACACATTTGCTCTGGGACCTCTCTGTCGCAAGAACTGGAGACATTTG 1419  
QY 1370 CCAAAATGACAGGAGTTTACAGACATATGCTTTTCAGATCAAGTTTCAGAAATGCGCTCA 1429  
Db 1420 CAAATATGACAGGAGTATGCTTTTTCGCAATTAAGACATA-----ACTGGCCTTA 1473  
QY 1430 TTGATGCTTTTGGGCGCTTTTATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGC 1489  
Db 1474 CTAAATGCTTTCAAGTAATTTTCACTAGAAAGTGGAGCATCATCTCAGCAGGCTATTCAGT 1533  
QY 1490 TTGAGAGTAGGAGTAAACCTCCAGAAACAGCCAGTGGATGAATGGCACAGTATGCTGG 1549

Db 1534 TGGAAAGCAAGCCTTTGAAAATTTACAGGAAGAAAAGAGTAAACGGCACAGTGCCTGTAG 1593  
QY 1550 ACAGCAGCTGGGAAAGAGACACTTTGTTTCTATCATCCTGGACACGAGCCTCCCAA 1609  
Db 1594 ACAGTACAGTTGGAAATGACACTTTCTTTGTTGTCATATGACATAAATAAACAGAAA 1653  
QY 1610 TCCCTTCTCGGATCCCAAGTGGACAGAGCA-----AGGTGGCTTTTGTAGTGGACA 1660  
Db 1654 TTGTTCTCCAAGATCCAAAAGAAAGAAATATAAACTCGGATTTCAAGAGATAGT 1713  
QY 1661 AAAACACCAAAATGGCCTTACCTCCAAATCCCAAGCAATTTGTAAGTTGGACTTTGGAAT 1720  
Db 1714 TAAATATTCGATCTGCTGCTGTGCAATACCTGTTGTTGACAGACAGTACTTGGACTT 1773  
QY 1721 ACAGTCT-----GCAAGCAAGCTCACAAACCTTGACCTGACTCTCAGTCCCGTG 1771  
Db 1774 ACAGCTTTCTAAATAATCATCCAGCTCTCAAAATGCTAACAGTGCAGTGCACCTCGAG 1833  
QY 1772 CGTCAATGTCTACCTGCTCCAAATTAAGTGAATTTCCAAAACGAACAGGACACAGCA 1831  
Db 1834 CAAGAGTCTCTACTATACCCCAAGTAAATGCAACAGCTCACATGATCAACATACAGCA 1893  
QY 1832 AATCCCGAGCCTCTGTTGATGCAATATTTGCGCAAGGAGCCTCCCAATTTCTCA 1891  
Db 1894 ATTATCTAGCCCAATGATTTGTTATGCACAAGTCAAGTCAAGGGTTTTCCTGTACTGG 1953  
QY 1892 GGGCCAGTGTACAGCCTGATTTGAATCAGTGAATGGAAAACAGTACTTTGGAACATAC 1951  
Db 1954 GAATCAGTGTAAATAGCCATTTAGAAAACGAAGATGGACATCAAGTAAACATTTGGAGTCT 2013  
QY 1952 TCGATAATGGAGCAGTCTGATGCTACTTAAGGATGAAGGCTGTACTCAAGTATTTCA 2011  
Db 2014 GGGCAATGGTGACAGTCTGTGATCTGTCAAGAAATGATGGCATCTACTCAAGATCTTTA 2073  
QY 2012 CAACTTATGACAGTATGATACAGTGTAAAAGTGGGCTCTGGGAGGAGTTAAG 2071  
Db 2074 CAGATTACTATGGAATGGTAGTACAGTTTAAAAGTACATGCACAGGCAAGAAACAA 2133  
QY 2072 CAGCAGAGGAGAGTATACCCAGCAGAGTGGAGCATGTACATACCTGGCTGGATG 2131  
Db 2134 CGGCTAGGCTAAATTTAAGACAAACACAGAAACAAAGTTCTATGTTCCAGGCTACGTTG 2193  
QY 2132 AGAATGATGAAATACAAATGGAATCCAAAGACCTGAAATTAATAGGATGATTTCAAC 2191  
Db 2194 AAAACGGTAAATATATCTGAACCCACCCAGACCTGAACTCAAGATGACCTGGCAAG 2253  
QY 2192 ACAAGCAAGTGTGTTTCAGCAAGAAATCTCGGAGGCTCATTTTGGCTTCTGTATGTC 2251  
Db 2254 CTAAAAATAGAAGACTTTAGCAGACTAAACCTCTGGAGGGTCAITTTACTGTATCAGGAGCTC 2313  
QY 2252 CAAATGCTCCCA---TACCTGATCTTCCACCTGGCCAAATCACCGACCTGAAGCGG 2308  
Db 2314 CTCCTCTGGTAAATCACCTCTGTGTTCCCAAGTAAATTAAGATCTTTGAGGCTA 2373  
QY 2309 AAATTCACGGGCGAGTCTCAITTAATCTGACTTGACAGCTCTCTGGGATGATTTAGCC 2368  
Db 2374 AGTTCAAGAAG---ATTATATTTCACTTTTCAAGACAGCCCTGCAATGTCCTAGATA 2430  
QY 2369 ATGGAACAGCTCACAGTATATCATTCGAATTAAGTACAAGTATCTTTGATCTCAGAGCA 2428  
Db 2431 AAGAAAAGCCCAACAGCTACATTAAGAAATAAGTAAGAGTTTCATGGATCGTCAAGAAG 2490  
QY 2429 AGTTCAATGAATCTTCTCAAGTGAATACCTGCTCTCATCCAAAGGAGGCAACTCTG 2488  
Db 2491 ATTTTGCAATCGAGCTTTAGTGAATCTTCAATCTAATCTAAGGAGGCGGATCAA 2550  
QY 2489 AGGAGTCTTTTGTTTAAACCAAGAAAACATTTCTTTGAAAATGGCACAGATCTTTTCA 2548  
Db 2551 AAGAAAATTTGNAATTTAAGCCAGACATTTTAGAGTAGAAAATGGCAAAATTTCTATA 2610  
QY 2549 TTGCTATTCCAGGCTGTGATAGGTGATGAAATCAGAAATATCAACATTCGACGAG 2608

Db 2611 TTTCAGTCCAGCCATCAACGAAGCAATCTCATCTCAGAGGTTTCTCACAATTGTACAAG 2670  
QY 2609 TATCTTTGTTTATTCCTCCAC 2629  
Db 2671 CAATCAATTTATTCCTCTAC 2691

RESULT 11  
US-10-055-412B-1  
; Sequence 1, Application US/10055412B  
; Patent No. 692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 3317  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated protein from  
; OTHER INFORMATION: endothelial cells  
US-10-055-412B-1

Query Match 30.2%; Score 900.2; DB 4; Length 3317;  
Best Local Similarity 61.4%; Pred. No. 3e-267;  
Matches 1635; Conservative 0; Mismatches 978; Indels 48; Gaps 10;

QY 5 TCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCATCTTGTATCTTC 64  
Db 43 TTACTGTAAATGTGCAAAAATGGTCTGTCTGAATCTTATCTGTCTTAACTTTGC 102  
QY 65 ACCTTCTAGAGGGCCCTGAGTAATTCATCTTCAGCTGACCAACAATGGCTATGAAG 124  
Db 103 ATCTCTCCCTGG---AATGAAAGTTCAATGGTAAATTTGAATTAACAATGGGTATGATG 159  
QY 125 GCATTTGCTGTGCAATGCACCCCAATGTGCCAGAGATGAACACTCATTCACAAATAA 184  
Db 160 GCATTTGCTGCAATTAACCCAGTGTGCCAGAGATGAANAATCTCATTTGAAACATAA 219  
QY 185 AGGACATGGTGACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTATTT 244  
Db 220 AGGAAATGGTAACTGAAGCTTCTACTTACCTGTTTTCATGCCACCAACGAAGATTAT 279  
QY 245 TCAAAAATGTTGCCATTTTGTATCTGAAACATGGAAGACAAAGGCTGACTATGTGAGAC 304  
Db 280 TCAGGAATGTGAGCATTTTAAATTCGAATGACCTGGAAATCAAAATCTGAGTACTTCATC 339  
QY 305 CAAAACCTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGTA 364  
Db 340 CAAAACAAGATCATATACACAGGAGATGATAGTTGCTTAATCCCTATCTAAATAATG 399  
QY 365 ATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGAGATCCACC 424  
Db 400 GAGATGATCCCTATACACTTCAATATGAAGGTGTGGAGAAAGGAAATATATACATT 459  
QY 425 TCACCTCTGATTTTCATTCAGGAAATAAGTTAGCTGAATATGGACCAACAGGTAGGGCAT 484  
Db 460 TTACTCCAAACTTCTTGTGTGATAATATTTCCATCTATATGGTCCCGAGGACAGAT 519  
QY 485 TTGTCCATGAGTGGGCTCATCTAGATGGGAGTATTTGACAGTACATATATGATGAGA 544  
Db 520 TTGTCCATGAGTGGGCCCATCTCCGCTGGGAAATATTTGATGATATATGATGGACCCAG 579  
QY 545 AATTCTACTTTATCC---AATGGAAGATACAAAGCAGTAAGATGTTTCAGCAGGTTATCTG 601

Db 580 CATTTCTATATTTCCAGAAAGAACACATATTGAAGCAACAAGATGTTCAACTCATATTA 639  
QY 602 GTACAAATGTAG---TAAAGAAAGTGTACGGAGGAGCTGTTTACACCAAAAAGATGCACAT 658  
Db 640 GTATTAAATGTGCTTTTCAAGAAATGCCCTGGAGGACGTGTATAACAAGTCTATGACAG 699  
QY 659 TCAATAAAGTACAGGACTCTATGAAAAAGAGATGTGAGTTTGTTCCTCAATCCCGCAGA 718  
Db 700 GTGACTTCACAGACAGGGCTGTATGAAGCAAAAATGTACATTCCTTCCAAAAAATCCAGA 759  
QY 719 CGGAGAAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGTTTGAATCTGTACAG 778  
Db 760 CTGCAAAAGAAATCCATTATGTTTATGCCAAGTCTCCATTTCTGTGACTGAATTTGTACAG 819  
QY 779 AACAAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATGCAATCTCCGAAAGCA 838  
Db 820 AAAAAACACACAATACAGAAAGCTCCAAACCTACAAAACAATAATGTGCAATGSCAAAGCA 879  
QY 839 CATGGAAAGTGTATCGTGTATTCAGGACTTTTAAAGAAACCACTCTCTATGACA-----A 892  
Db 880 CATGGGATGTAAATCATGAACCTCTGTGACTTTTCAAGATACATCTCCCATGACAGAAATGA 939  
QY 893 CACAGCCACCAATCCCACTTCTCATTTGCTGCAGATTGGACAAAAGATTTGTGTTTATG 952  
Db 940 ATCCACCGACTCATCTCATTTTTCATTTGCTCAAGTCCAAAACAGCGGGTAGTCTGTTGG 999  
QY 953 TCTTTGACAAATCTCGAAGCATGGGAGCTGTGTAACCGCTCAATCGACTGAATCAAGCAG 1012  
Db 1000 TACTTGATAAATCTGGAAGCATGTGCGAAGACCGTCTCTTTCAATGAATCAAGCAG 1059  
QY 1013 GCCAGCTTTTCTGCTGCAGACATGTGAGCTGGGTCTCTGGTGGGATGTTGATTTG 1072  
Db 1060 CAGAACTATATCTGATTTCAAGTTATTGAAAGGGATCTTTAGTTGGGATGTTTACATTTG 1119  
QY 1073 ACAGTGTCTCCATCTCAAAAGTGAACCTCATACATATAACAGTGGCAGTGACAGGGACA 1132  
Db 1120 ACAGTGTCTGTAATCCAAATCATCTPAAACAAGATAATGATGATAATGTTTACCAA 1179  
QY 1133 CACTCGCCAAAGATTAACCTGCAGCAGCTTCAGAGGAGACCTCCATCTGCGAGCGGCTTC 1192  
Db 1180 AGATCACCAGCAAACTGCTCAAGTAGTCTAATGTTGGAACCTTCAATTTGTAGAGGCTCA 1239  
QY 1193 GATCGGATTTACTGTGTATAGGAAGA---AATATCCAATGATGATGATCTGAATTTGTC 1249  
Db 1240 AAGCAGGATTCAGGCAATTTATCCAGTGCAGGACCTCTCTGTTTCTGAAATCATAC 1299  
QY 1250 TGCTGACGATGGGGAAGACAACTATAAGTGGGTGCTTTAACGAGGTCAACAAGATG 1309  
Db 1300 TATTAACGTATGGGAGATTAATGAATTAATTCATGCTTTGAGATGTAAGACGAAGTG 1359  
QY 1310 GTGCCATCATCCACACAGTCTGTTGGGGCTCTGCGACTCAAGAACTAGAGAGAGCTGT 1369  
Db 1360 GTGCAATCATCCACACCATTTGCTCTGGAGCCCTCTGCTGCCAAGAACTGAGACATTTG 1419  
QY 1370 CCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACAATGSCCTCA 1429  
Db 1420 CAATAATGACAGGAGATATCGTTTTTTTGGCAATAAAGACATA-----ACTGGCCTTA 1473  
QY 1430 TTGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGAGTGTCTCTCAGGCTCCATCCAGC 1489  
Db 1474 CTATGCTTTTCAGTAGAATTTTCATCTAGAAGTGGAGCATCACTTCAGCAGGCTATT 1533  
QY 1490 TTGAGACTAAGGATTAACCCCTCCAGAAACAGCAGTGGATGAATGGCACAGTGTATGCTGG 1549  
Db 1534 TGGAAAGCAAGCCCTTGAAATTTACAGAGAGGAAAGAGTAAGACGGCACAGTGCCTGTAG 1593  
QY 1550 ACAGCAGCTGGGAAAGGACATTTTGTCTTATCACCTGAGCAACCGACGCTCCCAAA 1609  
Db 1594 ACAGTACAGTTGGAATGACACTTTCTTTGTGTGCATGAGCAATACAAAAACCGAAA 1653  
QY 1610 TCCTTCTCTGGGATCCCAAGTGGACAGAGCA-----AGTGGCTTTGTAGTGACA 1660

Db 1654 TTGTTCTCCAGATCCAAAGGAAGAAATATATAAAACCTCGGATTTCAAAGAGTAAGT 1713  
QY 1661 AAAACACCAAAATGGCCCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT 1720  
Db 1714 TAAATATTCGATCTGCTGCTGCTGCAAAATACCTGGTATTGCGAGACAGGTACTTGGACTT 1773  
QY 1721 ACAGCTCT-----GCAAGCAAGCTCACAACCTTGACCTGACTGTCAAGTCCCGTG 1771  
Db 1774 ACAGCTCTTAAATATATGTCAGCTCTCAAATGCTAACAGTGAAGTGAAGTGAAGTGAAG 1833  
QY 1772 GGTCAATGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1831  
Db 1834 CAAGAGTCTTACTATATACCCCAAGTAAATGCAAGCTCAGTCAAGTCAAGTCAAGTCAAG 1893  
QY 1832 AATTCCTCCAGCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1891  
Db 1894 ATTATCTTAGCCCAATGATGTTTATGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 1953  
QY 1892 GGGCCAGTGTACAGCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1951  
Db 1954 GAATCAGTGAATAGCCATATAGAAACCGAAGTGGATCAAGTAAATGTTGGAGCTCT 2013  
QY 1952 TGGATAATGGAGCAGTGTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCA 2011  
Db 2014 GGGCAATGCTGAGGTGCTGATCTGCTCAAGATGATGGCATCTACTCAAGATCTTTA 2073  
QY 2012 CAACTTATGACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2071  
Db 2074 CAGATTACTATGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2133  
QY 2072 CAGCCAGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2131  
Db 2134 CGGCTAGGCTAAATTTAAGACACACCAAGATGATGATGATGATGATGATGATGATGATGATG 2193  
QY 2132 AGAATGATCAATATCAATGGAATCCACCAAGCTGAAATTAATAGGATGATGATGATGATGAT 2191  
Db 2194 AAAACGGTAAATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2253  
QY 2192 ACAAGCAAGTGTGTTTACAGCAAGATCTCTGGAGGCTGATGATGATGATGATGATGATGATG 2251  
Db 2254 CTAAATAGAAAGTCTTAGCAGACTAACTCTGGAGGCTCAATTTACTGTATCAGGAGCTC 2313  
QY 2252 CAAATGCTCCCA---TACCTGATCTCTCCACCTGGCCCAATCAGGACCTGAAGCGG 2308  
Db 2314 CTCCTCTGGTAAATCACTCTGTTGTTCCCAAGTAAATTAAGATCTTGGAGCTA 2373  
QY 2309 AAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGATGATGATGATGATG 2368  
Db 2374 AGTTCAAGAG---ATTATATTTCACTTTATGAGACAGCCCTGGCAATGCTTAGATA 2430  
QY 2369 ATGGAACAGCTCACAAGTATATCAATTCGAATAGTACAAGTATCTTTGATCTCAGAGACA 2428  
Db 2431 AAGGAAAGCCAAACAGCTACATTAATAGAAATAGTAAAGTCTCATGATGCTGCAAGAG 2490  
QY 2429 AGTTCAATGATCTCTTCAAGTCAATGATGATGATGATGATGATGATGATGATGATGATGATG 2488  
Db 2491 ATTTGACATGAGTCTTAGTGAATCTTAACTAACTAACTAACTAACTAACTAACTAACTAACT 2550  
QY 2489 AGGAAGTCTTTTGTAAACCAAGAAACATTTACTTTTGAATAAGCAGATCTTTTCA 2548  
Db 2551 AAGAAATTTGAAATTTAAGCCAGAACATTTTAGAGTAGAATAGCACCACAAATTTCTATA 2610  
QY 2549 TTGCTATTCAGGCTGTTGATAGGTCGATGATGATGATGATGATGATGATGATGATGATGATG 2608  
Db 2611 TTTTCAAGCAAGCCATCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 2670  
QY 2609 TATCTTTGTTTATCTCTCCAC 2629  
Db 2671 CAATCAAAATTTATCTCTCTAC 2691

RESULT 12

US-09-193-562D-33

; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 28.2%; Score 840.6; DB 3; Length 3022;  
Best Local Similarity 60.5%; Pred. No. 7,5e-249;  
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;

QY 91 TCACCTCATTCAGCTCAACACAAATCGCTATGAGGCAATGTCTGTTGCAATCGACCCCAAT 150  
Db 81 TCCATGGTGCATCTCAACAGCAATGGATACGAGGGTGTGGTCAATGGCCATTAACCCCAAT 140  
QY 151 GTGCCAGAGATGAACACTCATTTCAACAAATAAAGGACATGTTGACCCAGGCACTCTG 210  
Db 141 GTGCCAGAGGACGAAAGGCTCATCCCAAGCATAAAGGAAATGGTAACCTCAAGCTTCTAC 200  
QY 211 TATCTGTTTGAAGCTTACAGGAAGCGATTTATTTCAAAATGTTGCCATTTTGTCTCT 270  
Db 201 TACCTGTTTGAAGCCAGCCAGGAGAGTTTATTTTCAGGAACATTAAGCATATAGTCCCG 260  
QY 271 GAAACATGGAACACAAAGGCTGACTATGTAGACCAAAATTTGAGACCTTACAAAATGT 330  
Db 261 ATGACTGGAAGTCAAAATCTGAGTACTTAATGCAAAACGAGAAATCGTACGACAAAGCA 320  
QY 331 GATGTTCTGGTGTGCTGAGTCTACTCTCCAGTATGATGAAACCTTACACTGAGCAGATG 390  
Db 321 GAGCTATAGTTTGGGATCTCTCACCTGCAACATGAGAGAGCCCTTACCCCTTCAGTAT 380  
QY 391 GCAACTGTGGAGAGAAAGGTCGAAAGGATCCACCTCACTCTCTGATTTCAATTCAGGAAAA 450  
Db 381 GCAAGTGTGGGAGCAGAGACAGTACATACACTTCACTTCCAACTTCTCTACTCTGAT 440  
QY 451 AAGTTAGCTGAATATGACCAACAAAGTAGGCAATTTGTCCATGAGTGGGCTCATCTACGA 510  
Db 441 AACTTGGCTATCTATGGACCCGAGGAGAGTCTTTGTCCATGAGTGGGCTCTCCG 500  
QY 511 TGGGGAGTATTTGACGAGTACAAATATGATGAGAAATCTTACTTATCCA---ATGGAAGA 567  
Db 501 TGGGGAGTATTTGATGAGTATTAACGTGGACCCGTCACCTTTCATTTTCTAGAAGAAGT 560  
QY 568 ATACAGCAGTAAAGTGTTCAGCAGGTATTTACTGGTACAAATGATAGTAAAGAGTGTGAG 627  
Db 561 ATAGAAGCAACAGGTGCTCCGAGCATCACAGGCAAGAGTGTGTCCACGAGTGTGAG 620  
QY 628 GGAGGAGCTGTATACCAAAAGATGCAATTCATTAAGTAAAGTACAGGACTCTATGAAAA 687  
Db 621 AGAGGAGCTGTGTGCAAGGCGTGTGCTGAAAGCAGGCTGACTCGAAGACAGGCTGTATGA 680  
QY 688 GGATGAGTGTGTTCTTCCCAATCCCGCAGAGCGGAGAGGCTTCTATATATGTTTGACAAA 747  
Db 681 AAATGATACATTTATCCAGCAAAATACAGACAGCTGGGGCTCTCCATATATGTTCTAGCAA 740  
QY 748 CATGTTGATTTATAGTTGAATTTCTGACAGAAACAAACCAACAAAGAGTCTCCAAAC 807  
Db 741 AACCTCAATCTGTGTTGAATTTTGCACAGAAATTAACCAATGAGAGGCGCCCAAC 800  
QY 808 AAGCAAAATCAAAATGCAATCTCCAGACATGGAAGTATCGGTGATTTCTGAGGAC 867  
Db 801 CTACAAAACAAATGTGCAATCGAGAGCACTGGGATGTAATCAAGACGCTCTGTGAC 860



QY	868	TTTAAAGAAACCCTCTCTATG-----ACACACAGCGCACCAAAATCCCACTTCTCATTTG	921
DB	861	TTTTCAGAAATGCCCTCCCATCAGAGGAACAGAGCCCTCTCCTCACCTACATTTTATCTCG	920
QY	922	CTGCAGATTGGACAAAGAAATTTGTCTTTAGTCTCTGCACAAATCTGGAAGCATGGCGACT	981
DB	921	CTCAAGTCCAGAAAGCGAGTGGTGTCTTGTGTCTGGATAAATCTGGAAGCATGGACAAA	980
QY	982	GGTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTTCCTGTGTGACAGACAGTTGAG	1041
DB	981	GAAGACCGTCTTATTTCGAATGAATCAAGCAGCAGAACTGTACTTAACTCAAATTTGTGAA	1040
QY	1042	CTGGGTCCTGGGTTGGATGGGTGCACATTTTACAGTGTCTGCCCATGTACAAAGTGAATCTC	1101
DB	1041	AAGGAGTCTATGGTTGGATTAGTCACATTTGACAGCGCTGCCACATCCAAAATTTATCTA	1100
QY	1102	ATACAGATAAACAGTGGCGAGTGCAGGGACACACTCGGCCAAAGATTACCTGCAGCAGCT	1161
DB	1101	ATAAAATTAACGAGTAGTAGTACTCAAAAGATACCGCAAACTCCCCCAACAGGCT	1160
QY	1162	TCAGGAGGAGCTCCATCTGCAGCGGCTTCGATCGGCATTTACTGTGATTA---GGAAG	1218
DB	1161	TCCTGGTGGAACTTCAAATTCGCATGAGCTCCAGGCAGGATTTTCAGGCAATTAACCTCCAGT	1220
QY	1219	AAATATCCAATGATGATCTGAATTTGTGCTGTCTGACCGATGCGGGAAGACAACACTATA	1278
DB	1221	GACCAGAGCACTTCGGGTTCTGAGATCGTATGTGCTGACAGTGGGAAGATAATGGAATA	1280
QY	1279	AGTGGGTGCTTTTAACAGAGTCAAAACAAGTGGTCCCATCATCCACACAGTCGTTTGGGG	1338
DB	1281	CGTTCCTGCTTTGAGCGCGTCTCTCGCAGCGGTGCCATCATCCACACCATCGCTCTGGGG	1340
QY	1339	CCCTCTCGAGTCAAGAATCAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATAT	1398
DB	1341	CCCTCGCGTGCCTGAGAACTGGAGACTCTGTGCGACATGACAGAGGGCTTCGTTTCTAT	1400
QY	1399	GCITTCAGATCAAGTTCAGAACATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA	1458
DB	1401	GCCAAACAAGACCT-----AAACAGCGCTTATCGATCGTTTTCAGTAGAATTTCACTACA	1454
QY	1459	AATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAGAGGATTTAAACCTCCAGAAC	1518
DB	1455	AGTGGCAGCGTCTCCAGCAGGCTCTCGAGTTGGAGAGCAAGCGTTTCGATGTGACAGCA	1514
QY	1519	AGCCAGTGGATGAATGGCACAGTGAATCGTGGACAGCACCGTGGGAAAGGACATTTGTTTT	1578
DB	1515	GGGCGATGGATAAACGGTACAGTACCTCTGACAGTACCGTCGGAACGACACGTTCTTT	1574
QY	1579	CTTATCATCTGGACAACGCGACGCTCCCAAAATCTTCTCTGGGATCCAGTGGACAGGAAG	1638
DB	1575	GTTATCACCTGGATGGTAAAAAGCCAGAAATCATTTCTCAAGATCCAAAGGAAAAAAA	1634
QY	1639	CA-----AGTGGCTTTGTAGTGGACAAAACACAAATGGCTACCTCCAAATC	1689
DB	1635	TATACAACCTCAGATTTCCAAGATGATAAACTAAACATCCGTCGTGTAGACTTCAAAATA	1694
QY	1690	CCAGGCATTGCTAAGGTTGGCACTTGGAAATAACAG---TCTGCAAGCAAGCTCACAAACC	1746
DB	1695	CCGGCACTGCAGAGCAGGTACTTGGACTTACAGCTACACGGGTACCAAGTCTCAGTTG	1754
QY	1747	TTGACCCCTGACTGTACGTCCTGGTGCCTCAATGCTACCTGCCTCCAAATACAGTGAAT	1806
DB	1755	ATTACAATGACGTGACCACTCGAGCAAGAAGTCCCACTGGAACCACTCTCTGGGCTAC	1814
QY	1807	TCCAAAACGAACAGGACACCGCAAAATCCCAAGCCCTCTGTAGTTTATGCAAAATATT	1866
DB	1815	TGCTACATGATGACAGACACAGCCAGTACCTTAGCCGGATGATTTGTACGACCGGCTC	1874
QY	1867	CGCCAGGAGCGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAAT	1926
DB	1875	AGCCAAGGATTTTGCTGTCTTGGGAGCCAAATGTACAGCCCTCATAGAGCTGAACAT	1934

Qy	1927	GGAAAAACAGT	TACCTTGGAACTACTCGGATTAATGGACAGGTGCTGATCTACTAAGCAT	1986
Db	1935	GGACATCAAGTC	CACCTTGGAGCTCTGGGCAATGGGGCAGGTGCTGATATCGTTAAAAAT	1994
Qy	1987	GACGGTGTCTACT	CAAGGTATTTTCACAACTTATGACACGAATGCTAGATACAGTGTAATA	2046
Db	1995	GATGGCATCTACA	CAAGATACTTTACAGATTATCATGMAATGCTAGATACAGCCTAATA	2054
Qy	2047	GTGGGGGCTCTGG	GAGAGGATTAAAGCAGCCAGACGGAGAGTGATACCCGACAGAGTGGA	2106
Db	2055	GTGGGTGTCCAGG	CACAAAGAAACAAACACAGACTGAGCTTAAGA--CGAAGAACAAG	2111
Qy	2107	GCACGTACATACCT	GGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCAAGACCT	2166
Db	2112	TCITTTATATATCT	GGCTATGTGGAATAATGTTAAATTTGATCTGTAATCACCCAGACCA	2171
Qy	2167	GAAATTAATAGGA	TGATGTTCAACAAGCAAGTGTGTTTTCAGCAGAAACATCTCCGGG	2226
Db	2172	GATGCCAAGAAGA	CGCATAGAGCTTACAGTGGAGACTTCAACAGAGTAACCTCTGGA	2231
Qy	2227	GGCTCAAT--	TTGGTCTTCTGATGCCCAAAATGCTCCCATACCTGATCTCTCCACCT	2283
Db	2232	GGTCTGTTTACT	GTGTCTGGAGCCCTTGATGGCAGCACCGCTCGTGTGTTCACCACA	2291
Qy	2284	GGCAAAATCCGAC	CTGAAGGGGAAATTCACGGGGCGAGTCTCATTAATCTGACTTGG	2343
Db	2292	AGTAAAGTCAAG	ACCTGGAGGCTAGTTTATAGGTG--ATTATATTCACTTACATGG	2348
Qy	2344	ACAGCTCTGGGAT	GTATATGACCATGGAAACAGCTCAACAAGTATATCATTCGAATAAGT	2403
Db	2349	ACGGCCCTGGCA	AGGTTCTCGAATATGGAAGAGCATAGATACATCATCAGAAATGAGC	2408
Qy	2404	ACAAGTATCTTGAT	CTTCAGACAAGTTCAAATGAATCTCTTCAAGTGAATATCTACTGCT	2463
Db	2409	CAGATCCTCTGGAT	CTTCCAAGAGATTTTAAACAATGCTACTTTAGTGAATGTTCCAGT	2468
Qy	2464	CTCATCCCAAGGA	AGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACACAGAAAAACATTAAT	2523
Db	2469	CTGATACCTTAAGA	AGCTGGCTCAAAAGAGCATTTAAATTTCAAAACAGAAAACTTTTAA	2528
Qy	2524	TTTGAAATGGCA	CAGATCTTTTTCATGTGTTTTCAGGCTGTTCGATAGGTGCGATCTGAAA	2583
Db	2529	ATAGCAATGGCAT	CTCAGTCTCATTTGCAATCCAGCAGACAAATGAAGCCAGTCTCACC	2588
Qy	2584	TCAGAAATATCCA	ACATATGACAGGATATCTTTGTTTATTCCTCCACA	2630
Db	2589	TCGTAGGTCTCCA	CAACTCGCACAGGCTGTCAAGCTTACTTCTCTAGA	2635

RESULT 13

```

US-10-055-412B-33
; Sequence 33, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-055-412B-33

Query Match                28.2%; Score 840.6; DB 4; Length 3022;
Best Local Similarity     60.5%; Pred. No. 7.5e-249;

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Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;

QY 91 TCACCTCAITTCAGCTGAACAACTATGGCTATGAGGCAITTTGCTGTGCAATTCGACCCCAAT 150  
|||  
Db 81 TCCATGGTGCATCTCAACAGCAATGATACGAGGGTGTGGTCATTGGCCATTAAACCCAGT 140  
|||  
QY 151 GTGCCAGAGAGTGAACACTCTATTCAACAAATAAAGGACATGGTGACCCAGGCATCTCTG 210  
|||  
Db 141 GTGCCAGAGAGCAAGAGGCTCATCCCAAGCATAAAGGAATGGTAACCAAGCTTCTACC 200  
|||  
QY 211 TATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAATGTTGCCATTTTGAFTCT 270  
|||  
Db 201 TACCTGTTTGAAGCCAGCAAGAGAGTTTATTTTCAGGAACATAAGCATATTAGTCCG 260  
|||  
QY 271 GAAACATGGAAGCAAGAGCTGACTATGTAGAGCCAAATCTTGAGACCTTACAAAATGCT 330  
|||  
Db 261 ATGACCTGGAAGTTCGAAATCTGAGTACTTAATGCCAAACGAGAATCGTACGCAAGCA 320  
|||  
QY 331 GATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAGCAGATG 390  
|||  
Db 321 GACGTACATGTTGCGGATCTCTACCTGCAACATGGAGACGCCCTTACACCCCTTCAAT 380  
|||  
QY 391 GGCACATGTGGAGAGAGGGTGAAGGATCCACTCACTCTCTGATTTTCAATTGCGAGAAA 450  
|||  
Db 381 GGACAGTGTGGGACAGAGGACAGTACATACACTTCACTCCAAATTTCTACTCTCATGAT 440  
|||  
QY 451 AAGTTAGCTGAATATGGACCAACAGGTAGGCAATTTGTCCATGAGTGGGCTCATCTACGA 510  
|||  
Db 441 AACTTGCCTATCTATGGACCCCGAGGCAGAGTCTTTGTCCATGAGTGGGCCCATCTCCGG 500  
|||  
QY 511 TGGGGAGTATTTGACAGTACAAATAATGATGAAATTTCTACTTATCCA--ATGGAAGA 567  
|||  
Db 501 TGGGGAGTATTTGATGAGTATAACGTGGACCGGTCACTTTACATTTCTAGAAGAACACT 560  
|||  
QY 568 ATACAGCAGTAAAGTSTTCAGCAGGTATTTACTGTGTAACAAATGTAGTAAAGAGTGTAG 627  
|||  
Db 561 ATAGAAGCAACAAGTGTCTCGGCAGCATCACAGGCAAGAGTGTGTCCACGAGTGTCTAG 620  
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QY 628 GAGGAGCTGTTTACACAAAGATGCATTCATTAAGTAAACAGGACTCTATGA AAA 687  
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Db 621 AGAGGAGCTGTGTGCAAGGGGTGTCGGCGGTGACTCGAAGACACGGCTGTATGAACCC 680  
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QY 688 GATGTGAGTGTCTCTCAATCCCGCCAGACGGAGAGGCTTCTATAATGTTTGACAA 747  
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Db 681 AATGTACATTTATCCAGACAAAATACAGACNGCTGGGGCCCTCCATATGTTTATGCAA 740  
|||  
QY 748 CATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAC 807  
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Db 741 AACCTCAATTTCTGTGTTGAATTTTGCACAGAAAATAACCAACATGCAGAAGCCCCAAC 800  
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QY 808 AAGCAAAATCAAAATGCATCTCCAGACACATGGGAAGTGTATCGTGATTTGAGGAC 867  
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Db 801 CTACAAAACAAAATGTGCAATCGCAGAGCACGTGGGATGTAAATCAAGACGCTGTCTGAC 860  
|||  
QY 868 TTTAAGAAAACCACTCCTATG-----ACAACACAGCCCAAAATCCCACTTCTCATTTG 921  
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Db 861 TTTCAGATGCCCTCCCATAGAGGAAACAGAGCCCTTCTCCACTACATATTTATCTG 920  
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QY 922 CTGACATTTGGAACAAAGAAATGTGTGTTTGTAGTCTTTGACAAATCTGGAAGCATGGGACT 981  
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Db 921 CTCAAGTCCAGAAGGCGAGTGTGTGTTGTTGCTGGATAAATCTGGAAGCATGGACAAA 980  
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QY 982 GGTAAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTCTGTGTCGACAGTGTAG 1041  
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Db 981 GAAGACCGCTTTATTCGAATGAATCAAGCAGAGAACTGTACTTAATCAATTTGTGGA 1040  
|||  
QY 1042 CTGGGTCTCTGGGTGTGGGATGGTGCATTTTTCAGAGTGTCTGCCCATGTACAAAAGTGAATC 1101  
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Db 1041 AAGAGTCTATGTTGGATTGATTCACATTTTGACAGCGCTGCCACATCCAAAATTTATCTA 1100  
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QY 1102 ATACAGATAAACAGTGGCAGTGACAGGACACACTGCGCAAAAGATTAACCTGACGAGCT 1161  
|||  
Db 1101 ATAAAAATACGAGTAGTAGTACTACAAAAGATCAACCGCAAAACCTCCCCAACAGGCT 1160  
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QY 1162 TCAGAGGAGAGCTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTA--GGAAG 1218  
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Db 1161 TCTGTGTGAACCTTCAATTTGCAATTCGAGCTCCAGGAGGATTTTCAGGCAATTTACTCCAGT 1220  
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QY 1219 AAATATCCAACTGATGGATCTGAAATTTGCTGCTGACGATGGGGAACACACATATA 1278  
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Db 1221 GACCAGACACTTCCGTTTCTGAGATCGTATTGCTGACAGATGGGGAAGATAATGGAATA 1280  
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QY 1279 AGTGGTGTCTTAAAGAGGTCAAAACAAAGTGTGCTCATCATCAACAGTCTGTTTGGGG 1338  
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Db 1281 CGTCTCTGTTTGGAGCGCTCTCTCGCAGCGGTGCCATCATCCACACCATCGCTCTGGGG 1340  
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QY 1339 CCTCTGAGCTCAAGACTAGGAGCTGTCACAAATGACAGGAGGTTTACAGACATAT 1398  
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Db 1341 CTTTCGCGTGCAGAACTGGAGACTCTGTGCGACATACAGGAGGGCTTCGTTCTAT 1400  
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QY 1399 GTTCAGATCAAGTTTCAGAACAATGGCCTCATGTATGCTTTTGGGCCCCCTTTTCATCAGGA 1458  
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Db 1401 GCCAACAAAGACCT-----AAACAGCCTTATCGATGCTTTTCAGTAGAATTTTCATCTACA 1454  
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QY 1459 AATGAGCTGTCTCTCAGCGCTCCATCCAGTCTGAGGTAGAGTAAGGATTAAACCTCCAGAAC 1518  
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Db 1455 AGTGGCAGCGTCTCCCGCAGCGCTCTGCAAGTTGGAGAGCAAAAGCCTTCGATGTTCAGAGCA 1514  
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QY 1519 AGCCAGTGGATGAATGGCACAGTGTCTGTGGACAGCCGTCGGAAAGGACACTTTGTTT 1578  
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Db 1515 GGGGATGATGAATGAAGTGTACAGTACCTCTGGACAGTACCGTCCGACACAGACAGTCTCTTT 1574  
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QY 1579 CTTTATCCTGTGACAAACGAGCGCTCCCAAATCTTTCTCTGGGATCCCAAGTGACAGAAAG 1638  
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Db 1575 GTTATCACTGATGTGTAAAGCCAGAAATCATTTCTCAAGTCCAAAGAGGAAAAA 1634  
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QY 1639 CA-----AGGTGGCTTTGTAGTGGACAAAACACAAATATGCGCTTACCTCCAAATC 1689  
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QY 1690 CCAGCATTTGCTAAGTTGCGACTTGGAAATACAG--TCTCAAGCAAGCTTCACAAACC 1746  
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Db 1695 CCGGCACTGCGAGACAGTGTGAGCTTACAGTACAGGCTACAGGCTACAGTCTAGTTG 1754  
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QY 1747 TTGACCTGACTGTCACTGCTCCGTCGCTCCAATGTCTACCTGCTCCAAATTCAGTGAAT 1806  
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Db 1755 AITACANTGACAGTGACCTCGACGAAGAAGTCCCAACCATGGAACCACTCTCTGGGCTAC 1814  
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QY 1807 TCCAAAACGAACAGGACACCGACAAATTTCCCGAGCCCTCTGCTAGTATTATGCAAAATTT 1866  
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Db 1815 TGTACATGATGTCAGAGCACAGCCAGTACCTTAGCCGGATGATTGTGTACGCAACGGGTC 1874  
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QY 1867 CGCCAGGAGCCTCCCAATTTCTCAGGGCCAGTGTCCAGCCCTGATTGAATCAGTGAAT 1926  
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Db 1875 AGCCAAAGATTTTGTGCTGTTCTGGAGCCAAATGTCACAGCCCTCATAGAAGCTGAACAT 1934  
|||  
QY 1927 GGAAAAACAGTATACCTTTGGAACCTACTGGATAATGGAGCAGGTCTGATGCTACTAAGGAT 1986  
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Db 1935 GGACATCAAGTCACCTTTGGAGCTCTGGGACAAATGGGCGAGGTGCTGATATCGTTAAAAAT 1994  
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QY 1987 GACGGTGTCTACTCAAGGTATTTTCAACTTATGACACGAATGGTAGATACAGTGTAAAA 2046  
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Db 1995 GATGGCATCTACACAGATACTTTTACAGATTATCATGGAATGGTAGATACAGCTTAAAA 2054  
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QY 2047 GTGCGGGCTCTGGAGAGTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGGA 2106  
|||  
Db 2055 GTGCGTGTCCAGGCAAAAGAAACAAACCGACTGAGCTTAAGA---CAGAAGAACAG 2111  
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QY 2107 GCATGTGATACATCTGGCTGGATTTGAGATGATGAATTAATCAATGGAATCCACCAAGCTT 2166  
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Db 2112 TCTTTATATATACCTGGCTATGTGAAAAATGTTAAATTTGTACTGAATCCACCAGACCA 2171  
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QY 2167 GAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTTCAGCAGAAACATCTCGGGA 2226  
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Db 2172 GATGTCCTAAGAGAGGCCATAGAGCTTACAGTGAAGACTTTCAACAGAGTAACCTCTGGA 2231  
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Db 1417 TATAGTGTGGGAAGTTCATCTTTTGTGGACATCGTTTTTATGCCCATAAAAACAATAAT 1476  
QY 1423 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 1482  
Db 1477 GGCCTTAATGATGCTTTTCAGCAGAAATTTTCATCTAGAAAGTGGCAGCATCTCTCAGCAGGCT 1536  
QY 1483 ATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCAGTG 1542  
Db 1537 CTTAGTGGAAAGTAATAACTTTGATATCCAGCGAAGAAATGGATAATGTAAGTG 1596  
QY 1543 ATCTGGGACAGCACCGTGGAAAGGACACTTTTGTTCATCCTGGGACAGCAGCCT 1602  
Db 1597 CTTGGTGAATGATACAGTTAGAAATGATATCTCTTGTGTGCATGGACGATACAAAG 1656  
QY 1603 CCCCATAATCTTCTCGGATCCAGTGGACGACAGCAAGTGGCTTTGT-----A 1653  
Db 1657 CAGCAATATTTCTCAGATCCAAAGGAAAGAAATAATATACCTTCAGATTTTCAAGAA 1716  
QY 1654 GTGGACAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 1713  
Db 1717 GGTGAATAAATATTCGGTCTGCGCTCTTCGATACAGGTATTCAGAGACAGGCACT 1776  
QY 1714 TGGAAATACAGTCTGAA-----GCAAGCTCAAAACCTTGACCCCTGACTGTGACG 1764  
Db 1777 TGGACTTACAGGCTTCGAAACAAATCATACCAAAATCTCAATGCTAACTGTGACAAATGACC 1836  
QY 1765 TCCGCTGGCTCAATGCTACCTGCTCCAAATTCAGTGACTTCCAAACGACAGGAC 1824  
Db 1837 ACTCAGACAGAGCCCTACCACTCCAGTAATTTGCAACTGCTCAGATGAGTCAAAAT 1896  
QY 1825 ACCAGCAATTTCCAGCGCTCTGTAGTTTATGCAAAATATTCGCCAGGAGCCTCCCA 1884  
Db 1897 ACAGCTATTACCTAGCCAGTGATTTTATGATGCTGTGCTCAGTCAAGGGTTTCTCT 1956  
QY 1885 ATTCTCAGGCGAGTGTACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTG 1944  
Db 1957 GTTCTGGGAATCAATGTAAACGCCATTTAGAAATGAAGGGACATCAAGTAACATTTG 2016  
QY 1945 GAACTACTGGATAATGGAGCGGCTGCTGATGCTACTAGGATGAGCGGTCTACTCAAGG 2004  
Db 2017 GAGCTCTCGCAATGGCGAGGCTGATTTCTGCAAGAAATGATGGCATCTACTCAAGG 2076  
QY 2005 TATTTCACACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGCGCTCTGGGAGA 2064  
Db 2077 TATTTACAGATTACATGGAATGGTAGATACAGTTTAAAGTGTCTTACCAGGCAAGA 2136  
QY 2065 GTTAAACGAGCGACGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 2137 AAAAAACAGCTAGGC-----TAAGTCAACACAGAAATAAGCTCTGTATGTACCGGCG 2190  
QY 2125 TGGATTGAGATGATGAATACATGGAATCCACCAGACCTGAAATTAATAAGATGAT 2184  
Db 2191 TATGCTGAAATGGAATAATTAATCTGAAACCATCCAAACCTGAAAGTCAAGATGATGTG 2250  
QY 2185 GTTCAACACAGCAAGTGTGTTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGGCTCT 2244  
Db 2251 GAAGGAGCTCAACAGACGACTTCAGCAGACTCACTCTGGAGGCTGTTTACTGTATCA 2310  
QY 2245 GATGT-----CCCAATGTCCCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTG 2301  
Db 2311 GGAGTGCCTCTAATGTTAATCAITCTCAGGTGTTCTCACCTGGTAAATTTGTAGACCTC 2370  
QY 2302 AAGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCCTGGGATGAT 2361  
Db 2371 GAGGTAAGTTTCAAGAG---ATCATATTCAACTTTTCATGAGCTGCCCCCTGGCAAGTC 2427  
QY 2362 TATGACCATGGAACAGCTCAACAGTATATCAATGGAATAAGTACAAAGTATTTCTTGATCTC 2421  
Db 2428 CTCGATAAAGGAAGAGCTGAGAGCTACATTTAAGAAATAGTAAACATTTCTCTGACCTC 2487  
QY 2422 AGACAGAGTTCAATGATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCC 2481

Db 2488 CAAGAAGATTTTGTATAAAGCTGCTTTTAATAAATACTTCTGGTCTGATACCTAAGAGCCT 2547  
QY 2482 AACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAAACATTTACTTTTGAATAATGGCAGAT 2541  
Db 2548 GGTTCAGTAGAAAGTTTTGAATTTAAACCCAGAAACCTTCTTAAATAGAGAATGGTACGACA 2607  
QY 2542 CTTTTCATGCTTATTCAGGCTGTTGATAGGTGATCTGAAATCAGAAATATCCAAAT 2601  
Db 2608 TTCTATATTGCAATTCAGCCATCCATGAAGCCATGTCCACCTCAGAGGTTTCAAAAT 2667  
QY 2602 GCACGATGATCTTTGTTTATTCCTCCACAGACTCC 2636  
Db 2668 GCACAAGCAACTTATTTATTTCTCCACAGGAACC 2702

RESULT 15  
US-10-055-412B-29  
; Sequence 29, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 29  
; LENGTH: 3418  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-29

Query Match 27.9%; Score 832.6; DB 4; Length 3418;  
Best Local Similarity 59.9%; Fred. No. 2.4e-246;  
Matches 1603; Conservative 0; Mismatches 979; Indels 93; Gaps 9;

QY 46 GTGTTCATCTTGATTTCTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTCACTTCAGCTG 105  
Db 37 GTGATCTCTTCTTATCTCTGCTCTGCTGTATTGAAAGCTCACTGGTAACTTTG 96  
QY 106 AACCAATGCTATGAAGCAATTTGTTGCAATCGACCCCAATGTGCCAGAGATGAA 165  
Db 97 AATAACAATGATATGATGGCAATTTGATTGCAATTAATCCAGGTGACCAGAGATGAA 156  
QY 166 ACATCTATTCACAAATTAAGACATGTTGACCCCGGATCTCTGTATCTGTTTGAAGT 225  
Db 157 AAATCTATTCACAAATTAAGAGAAATGTAATGAAAGCATCTACTCACTGTTTCATGCC 216  
QY 226 ACAGAAAGCATTTTATTTCAAAAATGTTGCCATTTTGAATTTCTGAAACATGGAAGACA 285  
Db 217 ACCAAACAAGAGCTTATTTGAGAAATGAAGCAATTTATTCATGACCTACAAATCA 276  
QY 286 AAGGCTGACTATGAGACCAAAACTTGAGACCTTACAAAAATGCTGATGTTTCTGGTGTCT 345  
Db 277 AAATCTGAGTACTTAATCCCAAAACAAGAAACATATGACCGGAGATGTCATAGTTGCT 336  
QY 346 GAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAGCGAGATGGGCACTGTGGAGAG 405  
Db 337 GATCTTACCTGAAATACGGAGATGATCCCTATACCTTCAATATGGAATGGAAGAT 396  
QY 406 AAGGCTGAAAGGATCCACCTCACCTTCCTGATTTTCAATTCGAGGAAAAAGTTAGCTGAATAT 465  
Db 397 AAAGCAATATATACATTTTACTTCCAACTTCTTGTGACTAATACTTGGCTACCTAT 456  
QY 466 GGACCAAGGTGAGGCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGATTTTGAC 525  
Db 457 GGGCTCAGGTAAGATTTTGTCCATGGGTGGGCCCATCTCCGTTGGGAGATTTTGTAT 516

QY 526 GAGTACAAATAGTGTAGAAATCTTACTATCCAAATGGA---AGATACAGCAGTAA 582  
D5 517 GAGTATAATGTGGACCGCATTTCTATATTTCCAGAGAAACACTACTAGAACAAAGA 576  
QY 583 TGTTCAGCAGGTATTACTGGTACAAATGTAGTAAAGAGTGTCCAGGAGGAGCTGTTC 642  
D5 577 TGTTCACCTCTGTATTACTGTATTACATGTTTGAACGAATGCAAGGGGCCAGCTGTATA 636  
QY 643 ACCAAAGATGCACATTCATTAAGTAAACAGACCTCTATGAAAGAGATGTGATTTGTT 702  
D5 637 GCACGACCAATTCAGACGTGACTCACAGACAGGGCTGTATGAGCAAAATGTACATTTATC 696  
QY 703 CTCCAATCCGCGCACGAGAGAGCTCTATAATGTTTGCACACATGTGATCTATA 762  
D5 697 CCAAGAGATCCGACACTGCCAAGGAATCCATTTGTTTATGCAAAATCTTGATTTCTGTG 756  
QY 763 GTTGAATTTCTGTACAGAAACAAACACCAAGAGAGCTCCAAACAGCAAAATCAAAA 822  
D5 757 ACTGAATTTTGTACTGMAAAACACACAAATAAGAGCTCCAAAACCTATATAACAAATG 816  
QY 823 TGCATCTCCGAGACATGGGAATGTATCCGTGATTTCTGAGGACTTTTAAGAAACCACT 882  
D5 817 TGCATTCAGAGACATGGATGATTAATCATGAGCTCTGAGATTTTCAGCATTTATCT 876  
QY 883 CCTATGAC---AACACAGCCACCAATCCACCTTCTCATTTCTGCAGATTGGACAAAGA 939  
D5 877 CCCATGACAGAAATAAATTTACTCTGCTCAATTTTCAATTTTCAATGCTCAAGTCCMAACAGGT 936  
QY 940 ATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGGGAGCTGTAACCGCCTCAATCGA 999  
D5 937 GTAGTCTGTTGGTACTTGATAAATCTGAACATGAATGCAAGAGCCGTCTCTTTTGA 996  
QY 1000 CTGAATCAAGCAGGCGAGCTTTTCTCTGTGACAGATTTGAGCTGGGCTCTGGGTGGG 1059  
D5 997 ATGAATCAAGCAGCAGAAATTTGACTTGAATTTCAATTTATTTGAAAGGGATCTCTGGTGGG 1056  
QY 1060 ATGGTGACATTTGACAGTGTGCCATGTACAAAGTGAACCTCATACAGATAACAGTGGC 1119  
D5 1057 TTGGTCAATTTGACAGTTTGTCTAAATCCAAAGTAAAGCTCATAAATAATATGATGAT 1116  
QY 1120 AGTGACAGGACACACTGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGCTCCATC 1179  
D5 1117 AACCTTACCAAAAGACTCACTCAAACTGCTCAAGAGCTGATGGTGGCACTTCAAT 1176  
QY 1180 TGCAGGGCTTTCGATGGGCATTTTACTGTGATTTAGGAAGAAATATC---CAACTGATGA 1236  
D5 1177 TGCAGGGGACTCAAGCAGGATTTCAAGCAATTTCCCAAGTAATCAGAGTACTTTTCGT 1236  
QY 1237 TCTGAAATTTGCTGCTGACGATGGGAAGACACACTATAAGTGGGTCTTTAACGAG 1296  
D5 1237 TCTGAAATCATATTACTAACAGATGGGAAGATTTATCAATAGCTTTATGCTTTGGAGAG 1296  
QY 1297 GTCAAAACAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAA 1356  
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QY 1357 CTAGAGGAGCTCTCAAAATGACAGAGGTTTACAGACATA----- 1397  
D5 1357 CTGGAGCCCTGTCAATATGACAGGATTTACATAAGGGGACCTGTATATCTGAAAGTTTCA 1416  
QY 1398 -----TGCTTCAGATCAAGTTCAGAACAT 1422  
D5 1417 TATAGTGTGGGAAGTTTATCTTTTGTGGACATCGTTTTTATGGCCATAAACATAAAT 1476  
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QY 1483 ATCCAGCTTGAGATGAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGAGT 1542  
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QY 1714 TGGAAATACAGTCTGTCAA-----GCAAGCTCACAAACCTTCACCTGACTGTCAAG 1764  
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D5 2137 AAAACACAGCTAGC-----TAAGTCAAACACAGAAATTAAGCTCTGTATCTACCGGC 2190  
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Db 2668 GCACAAGCAACTTAATTTCCTCCACAGGAACC 2702

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Job time : 177.922 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 14:21:36 ; Search time 930.916 Seconds

(without alignments)

16392.172 Million cell updates/sec

Title: US-09-049-696-20

Perfect score: 2983

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3403857 seqs, 2557783690 residues

Total number of hits satisfying chosen parameters: 6807714

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	2983	100.0	3111	9	US-09-981-353-191
3	2983	100.0	3111	15	US-10-235-994-25
4	2983	100.0	3267	9	US-09-764-868-22
5	2971.8	99.6	3007	14	US-10-055-412B-27
6	2966.2	99.4	3311	9	US-09-922-217-1056
7	2966.2	99.4	3311	9	US-09-833-263-1056
8	2966.2	99.4	3311	13	US-10-025-380-1056
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#### ALIGNMENTS

RESULT 1

US-09-823-356-25

Sequence 25, Application US/09823356

Patent No. US20010025098A1

GENERAL INFORMATION:

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APPLICANT: Shah, Purvi

FILE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS

FILE REFERENCE: PF-0489-1 CON

CURRENT APPLICATION NUMBER: US/09/823,356

CURRENT FILING DATE: 2001-03-30

PRIOR APPLICATION NUMBER: 09/039,307

PRIOR FILING DATE: 1998 March 13

NUMBER OF SEQ ID NOS: 34

SOFTWARE: PERL Program

SEQ ID NO 25

LENGTH: 3111

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: incyte ID No. US20010025098A1 1737775

Query Match 100.0%; Score 2983; DB 9; Length 3111;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY	121	GAAGCATTGTGTTGCAATCGACCCCAATGTCGAGAGATGAAACACTCATTCACAA	180	Db	1210	TTTACTGTGATTAGGAAGAATATCCAACTGATGATCTGAAATTTGTCTGTGACGGAT	1269
Db	130	GAAGCATTGTGTTGCAATCGACCCCAATGTCGAGAGATGAAACACTCATTCACAA	189	QY	1261	GGGGAAGACAACTATTAAGTGGTGTCTTAAACGAGGTCAAAACAAAGTGGTGCATCATC	1320
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Db	190	ATAAGGACATGGTGACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	249	QY	1321	CACACAGTCGTTTGGGGCCCTCTCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA	1380
QY	241	TATTTCAAAAATGTTGGCAATTTGATCTCTGAAACATGGAACAAAGGCTGACTATGTG	300	Db	1330	CACACAGTCGTTTGGGGCCCTCTCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA	1389
Db	250	TATTTCAAAAATGTTGGCAATTTGATCTCTGAAACATGGAACAAAGGCTGACTATGTG	309	QY	1381	GGAGGTTTACAGACATATGCTTCAGTCAAGTTCAGAACTAGGCTCATTTGATGCTTT	1440
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Db	310	AGACCAAACTTGAGCCTTACAAAATGCTGATGTTCTGGTCTGAGTCTACTCTCTCA	369	QY	1441	GGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGATAG	1500
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Db	490	GCATTTGTCATGAGTGGCTCATCTACATGGGAGATTTGACGAGTACAAATATGAT	549	QY	1621	GATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGGACAAACAAACCAAAATGGCTAC	1680
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Db	2710	ATTCTCTGGCAATTCACATTTTAAAAATATCTGGAAGTGAATAGAGAACTGCAGCTGTCA	2769
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Qy	2941	TTCTCTAGGGGGCGATAAATAAATAAATGCTAAACAACCTGGGTA	2983
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## RESULT 2

	US-09-981-353-191	
	; Sequence 191, Application US/09981353	
	; Patent No. US20020160382A1	
	; GENERAL INFORMATION:	
	; APPLICANT: Lasek, Amy W.	
	; APPLICANT: Jones, David A.	
	; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER	
	; FILE REFERENCE: PA-0038 US	
	; CURRENT APPLICATION NUMBER: US/09/981,353	
	; CURRENT FILING DATE: 2001-10-11	
	; NUMBER OF SEQ ID NOS: 194	
	; SOFTWARE: PERL Program	
	; SEQ ID NO 191	
	; LENGTH: 3111	
	; TYPE: DNA	
	; ORGANISM: Homo sapiens	
	; FEATURE:	

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781	CAAAACCACAACAAAGAAGCTCCAAAACAGCAAATCAAAAATGCAATCTCCGAAGCAC	QY
790	CAAAACCACAACAAAGAAGCTCCAAAACAGCAAATCAAAAATGCAATCTCCGAAGCAC	Db
841	TGGGAAGTGATCCCGTGATTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCCA	QY
850	TGGGAAGTGATCCCGTGATTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCCA	Db
901	CCAAATCCCACGTTCTCATTTGCTGCAGATTGGACAAAGAATTTGTGTTTAGTCCTTGAC	QY
910	CCAAATCCCACGTTCTCATTTGCTGCAGATTGGACAAAGAATTTGTGTTTAGTCCTTGAC	Db
961	AAATCTGGAAGCATGGCGACTGTAACCGCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	QY
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Db 970 AATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1029  
Qy 1021 TTCTCTGTCGACAGACAGTGTAGCTGGGTCTGGGTGGGATGGTGACATTTGACAGTCT 1080  
Db 1030 TTCTCTGTCGACAGACAGTGTAGCTGGGTCTGGGTGGGATGGTGACATTTGACAGTCT 1089  
Qy 1081 GCCCATGTACAAAGTGAACTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC 1140  
Db 1090 GCCCATGTACAAAGTGAACTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC 1149  
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Qy 1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACTAATGGCTCAATGATGTTTT 1440  
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Qy 1561 GGAAAGGACACTTTGTTTCTTATCAGCTGGACAGCAGCCCTCCCAAAATCTCTCTGG 1620  
Db 1570 GGAAAGGACACTTTGTTTCTTATCAGCTGGACAGCAGCCCTCCCAAAATCTCTCTGG 1629  
Qy 1621 GATCCAGTGGACAGACAGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCTAC 1680  
Db 1630 GATCCAGTGGACAGACAGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCTAC 1689  
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Db 1690 CTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1749  
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Qy 1801 GTGACTTCCAAACGACAGACACAGCAATCCCGAGCCCTCTGGTGGTATTATGCA 1860  
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Qy 1861 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 1920  
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Qy 1921 GTGAATGGAAAAACAGTTACCTTGGAACTACTGGATAATGGAGCAGGTGTGATCTACT 1980  
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Qy 1981 AAGGATGACGGTCTCTACTCAAGTATTTTCAACATTTATGACAGATGTGATGATACAGT 2040  
Db 1990 AAGGATGACGGTCTCTACTCAAGTATTTTCAACATTTATGACAGATGTGATGATACAGT 2049  
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Db 2050 GTAAAGGTGCGGGCTCTGGGAGGAGTTAAACGACGACGAGAGTGTATACCCAGCAG 2109  
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Db 2110 AGTGGAGCAGCTGTACATACCTGGCTGGATTCAGAGATGATGAAATACAAATGGAATCCACA 2169  
Qy 2161 AGACTGAAATTAATAAGGATGATGTTCAACACAGCAAGTGTGTCTTCAGCAGAACATCC 2220  
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Db 2410 AGTACAAATATCTTTGATCTCAGACAGAAATGAAATCTCTTCAAGTGAATACTACT 2469  
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Db 2470 GCTCTCATCCCAAAGGAGCCAACTCTCAGGAAGTCTTTTGTGTTAAACAGAAAAATTT 2529  
Qy 2521 ACTTTGTTAAATGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTGTGATAAGTCTGATCTG 2580  
Db 2530 ACTTTGTTAAATGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTGTGATAAGTCTGATCTG 2589  
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Db 2590 AAATCAGAAATATCCAAATTCGACAGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA 2649  
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Db 2650 GAGACACCTAGTCTCTGATGAAACGCTCTCTCTGCTCTTAATTCATATCAATCAACAGCACC 2709  
Qy 2701 ATTCTGTCGATTCACATTTTAAATTTATGTGAAAGTGGATAGGAGAACTGCAGCTGTCA 2760  
Db 2710 ATTCTGTCGATTCACATTTTAAATTTATGTGAAAGTGGATAGGAGAACTGCAGCTGTCA 2769  
Qy 2761 ATAGCTAGGCTGAAATTTTGTCTCAGATAAATAAATAAATCAATTCATCTCTTTTTTGA 2820  
Db 2770 ATAGCTAGGCTGAAATTTTGTCTCAGATAAATAAATAAATCAATTCATCTCTTTTTTGA 2829  
Qy 2821 TTATAAATTTTCTAAATGATTTTATAGACTTCTCTAGGGGCGATATACATAAATGAT 2880  
Db 2830 TTATAAATTTTCTAAATGATTTTATAGACTTCTCTAGGGGCGATATACATAAATGAT 2889  
Qy 2881 ATAGTACATTTATCTAAATGATTTCTCTAGGGGCGATATACATAAATGATTTTATGAC 2940  
Db 2890 ATAGTACATTTATCTAAATGATTTCTCTAGGGGCGATATACATAAATGATTTTATGAC 2949  
Qy 2941 TTCTCTAGGGGCGATAAATAAATAAATGCTAAACAACTGGGTA 2983  
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## RESULT 3

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994

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; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

Query Match
Best Local Similarity 100.0%; Score 2983; DB 15; Length 3111;
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGATACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTTGATT 60
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10 GAAATCACAGGAGATGATACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTTGATT 69
QY 61 CTTACACTTCTAGAGGGCCCTGAGTAATTCACCTCATTGAGTGAACAACTGGCTAT 120
DB |||||
70 CTTACACTTCTAGAGGGCCCTGAGTAATTCACCTCATTGAGTGAACAACTGGCTAT 129
QY 121 GAAGGATTTGCTGTTGCAATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 180
DB |||||
130 GAAGGATTTGCTGTTGCAATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 189
QY 181 ATAAAGGACATGGTCAACCCAGCATCTCTGATCTGTTTGAAGCTACAGGAAGCATTT 240
DB |||||
190 ATAAAGGACATGGTCAACCCAGCATCTCTGATCTGTTTGAAGCTACAGGAAGCATTT 249
QY 241 TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAACAAAGGCTGACTATGTG 300
DB |||||
250 TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAACAAAGGCTGACTATGTG 309
QY 301 AGACCAAACTTGAGACTACACAAAATGCTGATGTTCTGGTGTGAGTCTACTCCTCCA 360
DB |||||
310 AGACCAAACTTGAGACTACACAAAATGCTGATGTTCTGGTGTGAGTCTACTCCTCCA 369
QY 361 GGTATGATGACCTTACACTGAGCAGATGGCAACTGTGAGAGAGGGTGAAGGATC 420
DB |||||
370 GGTATGATGACCTTACACTGAGCAGATGGCAACTGTGAGAGAGGGTGAAGGATC 429
QY 421 CACCTCACTCTGATTTCAATTCAGAAAAGTTAGCTGAATGACCAAGGCTGAGG 480
DB |||||
430 CACCTCACTCTGATTTCAATTCAGAAAAGTTAGCTGAATGACCAAGGCTGAGG 489
QY 481 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTGACGAGTACAATAATGAT 540
DB |||||
490 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTGACGAGTACAATAATGAT 549
QY 541 GAGAAATCTACTTATCCATGGAGAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 600
DB |||||
550 GAGAAATCTACTTATCCATGGAGAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 609
QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGACATTC 660
DB |||||
610 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGACATTC 669
QY 661 AATAAGTAAACAGGACTCTATGAAAAGGAGTGTGAGTGTGTTCTCCAAATCCCGCAGAG 720
DB |||||
670 AATAAGTAAACAGGACTCTATGAAAAGGAGTGTGAGTGTGTTCTCCAAATCCCGCAGAG 729
QY 721 GAGAGGCTTCTATAATGTTTGCAACACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780
DB |||||
730 GAGAGGCTTCTATAATGTTTGCAACACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 789
QY 781 CAAAACCAACAAAGAGGCTTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGCACA 840
DB |||||
790 CAAAACCAACAAAGAGGCTTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGCACA 849
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DB |||||
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970 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGCGCAGCTT 1029
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1030 TTCCTGCTSCAGACAGTTGAGCTGGGCTCTGTGTTGGATGGTGAATTTGACAGTGCT 1089
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DB |||||
1210 TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGAT 1269
QY 1261 GGGGAAGCAACACATATAAGTGGTCTTTAACGAGGTCACAAAGTGGTGGCCTATC 1320
DB |||||
1270 GGGGAAGCAACACATATAAGTGGTCTTTAACGAGGTCACAAAGTGGTGGCCTATC 1329
QY 1321 CACACAGTCGCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1380
DB |||||
1330 CACACAGTCGCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1389
QY 1381 GGAGTTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGGCTGTCCAAAATGACA 1440
DB |||||
1390 GGAGTTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGGCTGTCCAAAATGACA 1449
QY 1441 GGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAA 1500
DB |||||
1450 GGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAA 1509
QY 1501 GGATTAACCCCTCCAGAACAGCAGTGGATGAATGGCAGTGAATGGCAGTGAATGGCAGCAG 1560
DB |||||
1510 GGATTAACCCCTCCAGAACAGCAGTGGATGAATGGCAGTGAATGGCAGCAGCAGCAG 1569
QY 1561 GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGGCTCCCCAAATCTCTCTGG 1620
DB |||||
1570 GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGGCTCCCCAAATCTCTCTGG 1629
QY 1621 GATCCCACTGGACAGAAAGTGGCTTGTAGTGGACAAACACCAAAATGGCCCTAC 1680
DB |||||
1630 GATCCCACTGGACAGAAAGTGGCTTGTAGTGGACAAACACCAAAATGGCCCTAC 1689
QY 1681 CTCCAAATCCCACTGGACATTTGAGTTGGCACTTTGAAATACACTCTGCAAGCAAGCTCA 1740
DB |||||
1690 CTCCAAATCCCACTGGACATTTGAGTTGGCACTTTGAAATACACTCTGCAAGCAAGCTCA 1749
QY 1741 CAAACCTTGACCTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800
DB |||||
1750 CAAACCTTGACCTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1809
QY 1801 GTGACTTCCAAAACGACAGGACACAGCAAAATTCAGGAGCTCTGCTGCTGCTGCTGCTGCTGCT 1860
DB |||||
1810 GTGACTTCCAAAACGACAGGACACAGCAAAATTCAGGAGCTCTGCTGCTGCTGCTGCTGCTGCT 1869
QY 1861 AATATTGCGCAAGGAGCTCCCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGATCA 1920
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1870 AATATTGCGCAAGGAGCTCCCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGATCA 1929
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Db 1930 GTGAATGAAAAACAGTTTACCTTGGAACTACTGGTAATGAGCAGGTCGTGATGCTACT 1989  
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QY 2101 AGTGACACCTGTATACATACCTGGCTGGATTGAGAAATGATGAATACAATGGAATCCACCA 2160  
Db 2110 AGTGAGACCTGTATACATACCTGGCTGGATTGAGAAATGATGAATACAATGGAATCCACCA 2169  
QY 2161 AGACCTGAAATTAATAAGATGATGTTCAACAACAGCAAGTGTGTTTCAGCAGAACATCC 2220  
Db 2170 AGACCTGAAATTAATAAGATGATGTTCAACAACAGCAAGTGTGTTTCAGCAGAACATCC 2229  
QY 2221 TCGGAGGCTCAATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTCTCCCA 2280  
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QY 2401 AGTACAAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATATCTACT 2460  
Db 2410 AGTACAAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATATCTACT 2469  
QY 2461 GCTCTCATCCCAAGGAGCCTCTGAGGAGTCTTTTGTGTTTAAACACAGAAAACAT 2520  
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QY 2581 AATCAAGATATCCAAATGACAGATCTTTTGTGTTTAAACACAGAAAACAT 2640  
Db 2590 AATCAAGATATCCAAATGACAGATCTTTTGTGTTTAAACACAGAAAACAT 2649  
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US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 2983; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTCTGTGTTCTATCTGATT 60  
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QY 61 CTTTCACCTTCTAGAAGGGCCCTGAGTAAATTCACCTCAITTCAGCTGAACAAATGGCTAT 120  
Db 71 CTTTCACCTTCTAGAAGGGCCCTGAGTAAATTCACCTCAITTCAGCTGAACAAATGGCTAT 130  
QY 121 GAAGGCATTTGCTGTCGAATCGACCCCAATGTGCCAAGATGAACACITTCATTCAACAA 180  
Db 131 GAAGGCATTTGCTGTCGAATCGACCCCAATGTGCCAAGATGAACACITTCATTCAACAA 190  
QY 181 ATAAAGGACATGGTGAACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGCCATT 240  
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Db 251 TATTTCAAATAATGTTGCCAATTTTGTCTCTGAAACATGGAAGCAAAAGGCTGATGTG 310  
QY 301 AGACCAAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTTCGTGCTAGTCTACTCTCCA 360  
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QY 421 CACCTCACTCCTGATTTTCATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG 480  
Db 431 CACCTCACTCCTGATTTTCATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG 490  
QY 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 540  
Db 491 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 550  
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Db 611 GGTACAAATGTAGTAAAGAGTGTCCAGGAGGAGCTGTTTACACCAAAAAGATGCACATTC 670  
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QY 721 GAGAGGCTTCTATAATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTCGTACAGAA 780  
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Db      2951 TTCCTGTAGGGGGCGGATATAAATAAATCTAAACAACTGGGTA 2993
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RESULT 5
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match      99.6%; Score 2971.8; DB 14; Length 3007;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2976; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1  GAAATCACAGGAGATGTACAGCAATGGGCCAATTAAGAGTCTGTGTTCACTTGATT 60
Db      23  GGAATCACAGGAGATGTACAGCAATGGGCCAATTAAGAGTCTGTGTTCACTTGATT 82
QY      61  CTTCACTTCTAGAGGGGCCCTGAGTAACTCACTCACTCACTGAGTGAACAACAATGGCTAT 120
Db      83  CTTCACTTCTAGAGGGGCCCTGAGTAACTCACTCACTCACTGAGTGAACAACAATGGCTAT 142
QY     121  GAAGGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCACTTCAACAA 180
Db     143  GAAGGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCACTTCAACAA 202
QY     181  ATAAAGACATGTGTACCCAGGATCTGTGTATCTGTTGAAGCTACAGGAAGGCGATT 240
Db     203  ATAAAGACATGTGTACCCAGGATCTGTGTATCTGTTGAAGCTACAGGAAGGCGATT 262
QY     241  TATTTCAAAATGTTGCCATTTTATTCTTGAACATGGAAGCAAAAGGCTGACTATGTG 300
Db     263  TATTTCAAAATGTTGCCATTTTATTCTTGAACATGGAAGCAAAAGGCTGACTATGTG 322
QY     301  AGACCAAACTTGAGACCTACAAAATGCTGTGTTCTGTTGTTGTTGTTGTTGTTGTTGTT 360
Db     323  AGACCAAACTTGAGACCTACAAAATGCTGTGTTCTGTTGTTGTTGTTGTTGTTGTTGTT 382
QY     361  GGTAAATGATGAACCTACAGTACAGGATGGCAACTGTGGAGAGAGGTTGAAGGATC 420
Db     383  GGTAAATGATGAACCTACAGTACAGGATGGCAACTGTGGAGAGAGGTTGAAGGATC 442
QY     421  CACCTCACTCTGATTTTCACTTGAGGAAAAAGTTAGTCTGAATATGGACCAAGGTAGG 480
Db     443  CACCTCACTCTGATTTTCACTTGAGGAAAAAGTTAGTCTGAATATGGACCAAGGTAGG 502
QY     481  GCATTTGTCATGAGTGGGTCTACTAGGATGGGAGTATTTGACGAGTACAAATATGAT 540
Db     503  GCATTTGTCATGAGTGGGTCTACTAGGATGGGAGTATTTGACGAGTACAAATATGAT 562
QY     541  GAGAAATTTCTATTATCCATGGAAGATACAGCAGTAAAGTCTTTCAGCAGGTATTACT 600
Db     563  GAGAAATTTCTATTATCCATGGAAGATACAGCAGTAAAGTCTTTCAGCAGGTATTACT 622
QY     601  GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGACATTC 660
Db     623  GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGACATTC 682

QY      661  AATAAGTTAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTTCCAAATCCGCCAGACG 720
Db      683  AATAAGTTAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTTCCAAATCCGCCAGACG 742
QY      721  GAGAAGGCTTCTATAATGTTTGCACAAATGTTGATTTATATAGTTGAATTTCTGTACAAA 780
Db      743  GAGAAGGCTTCTATAATGTTTGCACAAATGTTGATTTATATAGTTGAATTTCTGTACAAA 802
QY      781  CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATCAAAATCAAAATCAAAATCAAA 840
Db      803  CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATCAAAATCAAAATCAAAATCAAA 862
QY      841  TGGGAAGTGATCCGCTGATTCTGAGGACTTTAAGAAAAACCACTCTTATGACAAACAGCA 900
Db      863  TGGGAAGTGATCCGCTGATTCTGAGGACTTTAAGAAAAACCACTCTTATGACAAACAGCA 922
QY      901  CAAAATCCCACTTCTCATTTGTCAGATTGGACAAAGAAATTTGTGTTAGTCTCTTGCAC 960
Db      923  CAAAATCCCACTTCTCATTTGTCAGATTGGACAAAGAAATTTGTGTTAGTCTCTTGCAC 982
QY     961  AAATCTGGAAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT 1020
Db     983  AAATCTGGAAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT 1042
QY    1021  TTCTCTGTGCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGTCT 1080
Db    1043  TTCTCTGTGCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGTCT 1102
QY    1081  GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGAGTGACAGGACACACTCGCC 1140
Db    1103  GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGAGTGACAGGACACACTCGCC 1162
QY    1141  AAAAGATTAACCTGCAGCAGCTTCAGAGGAGCTCCATCTGCAGCGGGCTTGATCGGCA 1200
Db    1163  AAAAGATTAACCTGCAGCAGCTTCAGAGGAGCTCCATCTGCAGCGGGCTTGATCGGCA 1222
QY    1201  TTTACTGTGATTAGGAAGAAATATCCAATGTATGATCTGAAATTTGTGTGTGTGACGAT 1260
Db    1223  TTTACTGTGATTAGGAAGAAATATCCAATGTATGATCTGAAATTTGTGTGTGTGACGAT 1282
QY    1261  GGGGAAGACAACACTATAAGTGGGCTTTTAAAGAGTCAAAACAAAGTGGTGCCATCATC 1320
Db    1283  GGGGAAGACAACACTATAAGTGGGCTTTTAAAGAGTCAAAACAAAGTGGTGCCATCATC 1342
QY    1321  CACACAGTGGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGTGTCCAAATATGACA 1380
Db    1343  CACACAGTGGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGTGTCCAAATATGACA 1402
QY    1381  GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGGAGTGTCCAAATAT 1440
Db    1403  GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGGAGTGTCCAAATAT 1462
QY    1441  GGGGGCCCTTTCATCAGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500
Db    1463  GGGGGCCCTTTCATCAGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1522
QY    1501  GGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGTATCGTGGACAGCACCGTG 1560
Db    1523  GGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGTATCGTGGACAGCACCGTG 1582
QY    1561  GGAAGAGACACTTTGTTTCTTATCCTGGACAAACGAGCCTCCCAAAATCTTCTCTG 1620
Db    1583  GGAAGAGACACTTTGTTTCTTATCCTGGACAAACGAGCCTCCCAAAATCTTCTCTG 1642
QY    1621  GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAACACCAAAATGGCTTAC 1680
Db    1643  GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAACACCAAAATGGCTTAC 1702
QY    1681  CTCCAATCCAGCATTGTGATGTTGGCACTTGGAAATATACAGTCTGCAAGCAAGCTCA 1740
Db    1703  CTCCAATCCAGCATTGTGATGTTGGCACTTGGAAATATACAGTCTGCAAGCAAGCTCA 1762
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QY	1741	CAAAACCTTGACCCCTGAGTCTCACGTCCCGTGGCTCCAAATGCTACGCTCCCTCCCAATTACA	1800
Db	1763	CAAACCTTGACCCCTGAGTCTGTACGTCCCGTGGCTCCAAATGCTACCTTGCTTCCCAATTACA	1822
QY	1801	GTGACATTCCAAACAGNAACGAAGACACCGAGCAATTCCTCCAGCCCTCTGGTAGTTTATGCA	1860
Db	1823	GTGACTTCCAAACGAACGAAGACACCGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCA	1882
QY	1861	AATATTGCGCAAGGAGCCTCCCAATTCCTCAGGGCCAGTGTCACAGCCCTGATGATCA	1920
Db	1883	AATATTGCGCAAGGAGCCTCCCAATTCCTCAGGGCCAGTGTCACAGCCCTGATGATCA	1942
QY	1921	GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGAACTACTTGGAACTACTTGGAACTACT	1980
Db	1943	GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGAACTACTTGGAACTACTTGGAACTACT	2002
QY	1981	AAGGATGACGGTGCTACTCAAGGTATTTTCAACAATTATGACACGAATGGTAGATACAGT	2040
Db	2003	AAGGATGACGGTGCTACTCAAGGTATTTTCAACAATTATGACACGAATGGTAGATACAGT	2062
QY	2041	GTAAAAGTCGGGGCTCTCGGAGGAGTGTAAACGACGCCAGACGGGAGAGTGATACCCGACGAG	2100
Db	2063	GTAAAAGTCGGGGCTCTCGGAGGAGTGTAAACGACGCCAGACGGGAGAGTGATACCCGACGAG	2122
QY	2101	AGTGAGACACTGTACATACCTGGCTGGATTGAGAAATGATGAAATACAATGGAATCCACCA	2160
Db	2123	AGTGAGACACTGTACATACCTGGCTGGATTGAGAAATGATGAAATACAATGGAATCCACCA	2182
QY	2161	AGACTGAAATTAATAAGGATGATGTTCAACACGAAGCAAGTGTTTTCAGCAGAACATCC	2220
Db	2183	AGACTGAAATTAATAAGGATGATGTTCAACACGAAGCAAGTGTTTTCAGCAGAACATCC	2242
QY	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCTCCAAATGCTCCCACTACTGATCTCTTCCCA	2280
Db	2243	TCGGGAGGCTCATTTGTGGCTTCTGATGTCTCCAAATGCTCCCACTACTGATCTCTTCCCA	2302
QY	2281	CCTGGCCAAATCACGACCTGAAGCGCGGAATTCACGGGGGAGTCTCAATTAATCTGACT	2340
Db	2303	CCTGGCCAAATCACGACCTGAAGCGCGGAATTCACGGGGGAGTCTCAATTAATCTGACT	2362
QY	2341	TGGACAGCTCTCTGGGATGATTAATGACCATGGGAACAGCTCACAGTATATCATTCGAATA	2400
Db	2363	TGGACAGCTCTCTGGGATGATTAATGACCATGGGAACAGCTCACAGTATATCATTCGAATA	2422
QY	2401	AGTACAAAGTATCTTGTATCTTCAGAGACAAGTTCAAATGAATCTCTTCAAGTGATACTACT	2460
Db	2423	AGTACAAAGTATCTTGTATCTTCAGAGACAAGTTCAAATGAATCTCTTCAAGTGATACTACT	2482
QY	2461	GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTTGHTTAAACACAGAAACATT	2520
Db	2483	GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTTGHTTAAACACAGAAACATT	2542
QY	2521	ACTTTTGAAAATGGCACAGATCTTTTCATTGCTATTTCAGCGTGTGTGATAAGTCTGATCTG	2580
Db	2543	ACTTTTGAAAATGGCACAGATCTTTTCATTGCTATTTCAGCGTGTGTGATAAGTCTGATCTG	2602
QY	2581	AAATCGAAATATCCCAACATTCGACGAGTATCTTTGTTTATTCCTCCACAGACTCCGGCA	2640
Db	2603	AAATCGAAATATCCCAACATTCGACGAGTATCTTTGTTTATTCCTCCACAGACTCCGGCA	2662
QY	2641	GAGACACCTAGTCTGATGAACAGTCTGCTCTGCTCTATATTCATCAACAGACACC	2700
Db	2663	GAGACACCTAGTCTGATGAACAGTCTGCTCTGCTCTATATTCATCAACAGACACC	2722
QY	2701	ATTCTCTGGCATTCACATTTTAAAAATTTATGTGGAAGTGGATAGGAGACTTCGACTGTCA	2760
Db	2723	ATTCTCTGGCATTCACATTTTAAAAATTTATGTGGAAGTGGATAGGAGACTTCGACTGTCA	2782
QY	2761	ATAGCCTTAGGGCTGAATTTTGTCCAGATAAAATAAAATCAATTCATCTCTTTTTTTTGA	2820
Db	2783	ATAGCCTTAGGGCTGAATTTTGTCCAGATAAAATAAAATCAATTCATCTCTTTTTTTTGA	2842
QY	2821	TTATAAAAATTTCTAAAAATGTAATTTTGTAGCTTCCTGTAGGGGGCGATATACATAATGTAT	2880

## RESULT 6

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US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US2002007641A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Scerif, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOT
; TITLE OF INVENTION: OF COLON CANCER AND
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

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Query Match	99.48;	Score 2966.2;	DB 9;	Length 3311;
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Qy	1	GAAATCA	CAGGAGATGTACAGCAATGGGCCATTTAAGAGTCTTGTTTCATCTTGATT	60
Db	328	GGAATCA	CAGGAGATGTACAGCAATGGGCCATTTAAGAGTCTTGTTTCATCTTGATT	387
Qy	61	CTTCACC	TCTTAGNAGGGCCCTGAGTAATTCATCATTTACGTGGAACAACAATGGCGTAT	120
Db	388	CTTCACC	TCTTAGAAGGGCCCTGAGTAATTCATCATTTACGTGGAACAACAATGGCGTAT	44
Qy	121	GAAGGC	ATTGCTGTTGCAATCGACCCCCAATGTGCGAGAAGATGAACACATCATTCACAA	180
Db	448	GAAGGC	ATTGCTGTTGCAATCGACCCCCAATGTGCGAGAAGATGAACACATCATTCACAA	507
Qy	181	ATAAAG	GACATGGTGACCCAGGCATCTCTATCTGTGTTGAAGCTACAGGAAAGCGATTT	240
Db	508	ATAAAG	GACATGGTGACCCAGGCATCTCTATCTGTGTTGAAGCTACAGGAAAGCGATTT	567
Qy	241	TATTTCA	AAAAATCTTGCCATTTTGATTTCTCGAACAATGGAAGACAAGGCTGACTATGTG	300
Db	568	TATTTCA	AAAAATGTTGCCATTTTGATTTCTCGAACAATGGAAGACAAGGCTGACTATGTG	627
Qy	301	AGACCAA	AACCTTGAGACCTACAAAATGTGATGTTCTGGTTGCTGAGTCTACTCTCTCCA	360
Db	628	AGACCAA	AACCTTGAGACCTACAAAATGTGATGTTCTGGTTGCTGAGTCTACTCTCTCCA	687
Qy	361	GGTAATG	ATGAACCTTACACTGAGCGAGATGGGCAACTGTGGAGAGAAGGTTGAAGGATC	420
Db	688	GGTAATG	ATGAACCTTACACTGAGCGAGATGGGCAACTGTGGAGAGAAGGTTGAAGGATC	747

Qy	421	CACCTCACTCTGATTTTCATTGCGAGGAAAAAGTTAGCTGAATATGGACCAACAAGTAGG	480	Qy	1501	GGATTAACCCCTCCAGAAACAGCCAGTGGATGAATGGCAAGTATCGTGGACAGCAACCGTG	1560
Db	748	CACCTCACTCTGATTTTCATTGCGAGGAAAAAGTTAGCTGAATATGGACCAACAAGTAGG	807	Db	1828	GGATTAACCCCTCCAGAAACAGCCAGTGGATGAATGGCAAGTATCGTGGACAGCAACCGTG	1887
Qy	481	GCATTTGTCATGATGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAATAATGAT	540	Qy	1561	GGAAAGGACACTTTGTTTCTTATCACCTGGACAGGAGCTCCGCAATCCTTCTCTGG	1620
Db	808	GCATTTGTCATGATGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAATAATGAT	867	Db	1888	GGAAAGGACACTTTGTTTCTTATCACCTGGACAGGAGCTCCGCAATCCTTCTCTGG	1947
Qy	541	GAGAAATTTCTACTTATCCAAATGGAAGATACAAGCAGTAAGATGTTACAGCAGGTATTACT	600	Qy	1621	GATCCAGTGGACAGAAAGGTGGTTCCTAGTGGCAAAAAACACCAAAATGSCCTTAC	1680
Db	868	GAGAAATTTCTACTTATCCAAATGGAAGATACAAGCAGTAAGATGTTACAGCAGGTATTACT	927	Db	1948	GATCCAGTGGACAGAAAGGTGGTTCCTAGTGGCAAAAAACACCAAAATGSCCTTAC	2007
Qy	601	GGTACAAATGATGTAAGAAAGTGTGAGGAGCAGCTGTTACACAAAGATGCAATTC	660	Qy	1681	CTCCAAATCCAGGCAITTGCTTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
Db	928	GGTACAAATGATGTAAGAAAGTGTGAGGAGCAGCTGTTACACAAAGATGCAATTC	987	Db	2008	CTCCAAATCCAGGCAITTGCTTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067
Qy	661	AATAAGATGACGAGCTCTATGAAAGAGTGTGAGTGTGTTCTCCAATCCCGCCAGAGG	720	Qy	1741	CAAACTTTGACCTGACTGTCAAGTCCCGTGGTTCATGCTACCCCTGCCCTCCCAATTACA	1800
Db	988	AATAAGATGACGAGCTCTATGAAAGAGTGTGAGTGTGTTCTCCAATCCCGCCAGAGG	1047	Db	2068	CAAACTTTGACCTGACTGTCAAGTCCCGTGGTTCATGCTACCCCTGCCCTCCCAATTACA	2127
Qy	721	GAGAAGGCTTCTATATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780	Qy	1801	GTGACTTCCAAAAACGAAACAGACACCAAGCAAAATCCCGCAGCCCTCTGCTAGTTTATGCA	1860
Db	1048	GAGAAGGCTTCTATATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1107	Db	2128	GTGACTTCCAAAAACGAAACAGACACCAAGCAAAATCCCGCAGCCCTCTGCTAGTTTATGCA	2187
Qy	781	CAAAACCAACAAAGAAAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACA	840	Qy	1861	AATATTCGCGAAGGAGCCCTCCCAATTTCTAGGGCAGTGTCAAGCCCTGATTTGAATCA	1920
Db	1108	CAAAACCAACAAAGAAAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACA	1167	Db	2188	AATATTCGCGAAGGAGCCCTCCCAATTTCTAGGGCAGTGTCAAGCCCTGATTTGAATCA	2247
Qy	841	TGGGAAGTGAATCGGTGATTTCTGAGGACTTTAGAAACCACTCTCATGACAAACAGCCA	900	Qy	1921	GTGAATGGAAAAACAGTTTACCTTGGAATCTACTGGATTAATGGAGCAGTGTCTGATGCTACT	1980
Db	1168	TGGGAAGTGAATCGGTGATTTCTGAGGACTTTAGAAACCACTCTCATGACAAACAGCCA	1227	Db	2248	GTGAATGGAAAAACAGTTTACCTTGGAATCTACTGGATTAATGGAGCAGTGTCTGATGCTACT	2307
Qy	901	CAAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTGTTTGTAGTCTCTGAC	960	Qy	1981	AGGATGACGGTGTCTACTCAAGTATTTTCAAACTTATGACACCAATGGTATGATACAGT	2040
Db	1228	CAAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTGTTTGTAGTCTCTGAC	1287	Db	2308	AAGGATGACGGTGTCTACTCAAGTATTTTCAAACTTATGACACCAATGGTATGATACAGT	2367
Qy	961	AAATCTGGAAGCATGCGACTGTGTAACCGCTCAATCGACTGAATCAAGCAGCCAGCTT	1020	Qy	2041	GTAAAGTSCGGGCTCTGGGAGGAGTTAACGACGACGAGGAGTGTATCCCGAGCAG	2100
Db	1288	AAATCTGGAAGCATGCGACTGTGTAACCGCTCAATCGACTGAATCAAGCAGCCAGCTT	1347	Db	2368	GTAAAGTSCGGGCTCTGGGAGGAGTTAACGACGACGAGGAGTGTATCCCGAGCAG	2427
Qy	1021	TTCTCTGTCAGACAGTTCAGCTGGGCTCTGGGTTGGGATGCTGACATTTGACAGTGT	1080	Qy	2101	AGTGAGGACCTGTACATACCTGGCTGGATTGAGATGATGAAATACAAATGGAAATCCACCA	2160
Db	1348	TTCTCTGTCAGACAGTTCAGCTGGGCTCTGGGTTGGGATGCTGACATTTGACAGTGT	1407	Db	2428	AGTGAGGACCTGTACATACCTGGCTGGATTGAGATGATGAAATACAAATGGAAATCCACCA	2487
Qy	1081	GCCCATGTACAAAGTGAACCTACACAGATAAACAGTGGCAGTGACAGGGACACACTCGCC	1140	Qy	2161	AGACCTGAAATTAATAAGGATGATGTTCAACAACAAGCAAGTGTGTTTCAGCAAGAAATCC	2220
Db	1408	GCCCATGTACAAAGTGAACCTACACAGATAAACAGTGGCAGTGACAGGGACACACTCGCC	1467	Db	2488	AGACCTGAAATTAATAAGGATGATGTTCAACAACAAGCAAGTGTGTTTCAGCAAGAAATCC	2547
Qy	1141	AAAAGATTACTGACAGCTTCAGGAGGACGTCATCTGACGCGGGCTTCGATCGGCA	1200	Qy	2221	TCGGGAGGCTCAITTTGTGGCTTCTGATGTCGCAATGCTCCCATGCTGATCTCTTCCCA	2280
Db	1468	AAAAGATTACTGACAGCTTCAGGAGGACGTCATCTGACGCGGGCTTCGATCGGCA	1527	Db	2548	TCGGGAGGCTCAITTTGTGGCTTCTGATGTCGCAATGCTCCCATGCTGATCTCTTCCCA	2607
Qy	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGCTGACGGAT	1260	Qy	2281	CCTGGCCAAATCACCCAGCTGAGGCGGAAATTCAGGGGCGAGTCTCATTAATCTGACT	2340
Db	1528	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGCTGACGGAT	1587	Db	2608	CCTGGCCAAATCACCCAGCTGAGGCGGAAATTCAGGGGCGAGTCTCATTAATCTGACT	2667
Qy	1261	GGGGAAGACAACTATTAAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGGCATCATC	1320	Qy	2341	TGCACAGCTCCTCGGGATGATTTATGACCATGGAACAGCTCAAAAGTATATCATTCGAATA	2400
Db	1588	GGGGAAGACAACTATTAAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGGCATCATC	1647	Db	2668	TGCACAGCTCCTCGGGATGATTTATGACCATGGAACAGCTCAAAAGTATATCATTCGAATA	2727
Qy	1321	CACACAGTCTGTTGGGCGCTCTGACGCTCAGAACTAGAGGAGTGTCCAAATGACA	1380	Qy	2401	AGTACAAAGTATCTTGTATCTCAGACAGAGTCAATGAATCTCTCAAGTGAATACTACT	2460
Db	1648	CACACAGTCTGTTGGGCGCTCTGACGCTCAGAACTAGAGGAGTGTCCAAATGACA	1707	Db	2728	AGTACAAAGTATCTTGTATCTCAGACAGAGTCAATGAATCTCTCAAGTGAATACTACT	2787
Qy	1381	GGAGTTTACAGACATATGCTTCAAGTCAAGTTCAGAACTAGGAGTGTCCAAATGACA	1440	Qy	2461	GCTCTCATCCCAAGGAGGAGCACTCTGAGGAGTCTTTTGTGTTTAAACCCAGAAAAACATT	2520
Db	1708	GGAGTTTACAGACATATGCTTCAAGTCAAGTTCAGAACTAGGAGTGTCCAAATGACA	1767	Db	2788	GCTCTCATCCCAAGGAGGAGCACTCTGAGGAGTCTTTTGTGTTTAAACCCAGAAAAACATT	2847
Qy	1441	GGGCGCCCTTTTCATCAGGAAATGAGAGTGTCTCTCAGGCGCTCCATCCAGCTTGAGAGTAAG	1500	Qy	2521	ACTTTTGAAAAATGGCAAGATCTTTTTCATTGCTATTCCAGGCTGTGTGATAGGTCGATCTG	2580
Db	1768	GGGCGCCCTTTTCATCAGGAAATGAGAGTGTCTCTCAGGCGCTCCATCCAGCTTGAGAGTAAG	1827	Db	2848	ACTTTTGAAAAATGGCAAGATCTTTTTCATTGCTATTCCAGGCTGTGTGATAGGTCGATCTG	2907
				Qy	2581	AAATCAGAAATATCCAAACATTGACAGAGTATCTTTGTTTATCTCTCCACAGACTCCGCCA	2640

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Db 2908 AAATCAGAAATATCCAAACATTGCAGAGTATCTTTGTTTATTTCTCCACAGACTCCGCCA 2967
Qy 2641 GAGACACTAGTCTGATGAACAGCTGCTGCTTCTCTTAATATTCATATCAACAGACAC 2700
Db 2968 GAGACACTAGTCTGATGAACAGCTGCTGCTTCTCTTAATATTCATATCAACAGACAC 3027
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Db 3028 ATTCTGGCAATTCACATTTTAAATAATATGGAAGTGGATAGGAGAACTGCAGCTGCA 3087
Qy 2761 ATAGCCTAGGCGTGAATTTTGTGAGATATCTCTGAGGGGCGATATACTAAATGAT 2880
Db 3088 ATAGCCTAGGCGTGAATTTTGTGAGATATCTCTGAGGGGCGATATACTAAATGAT 3206
Qy 2821 TTATAAAATTTCTAAATGATTTTGTGAGATATCTCTGAGGGGCGATATACTAAATGAT 2940
Db 3147 TTATAAAATTTCTAAATGATTTTGTGAGATATCTCTGAGGGGCGATATACTAAATGAT 3266
Qy 2881 ATAGTACATTTATTAATGATTTCTGAGGGGCGATATACTAAATGATTTTGTAGAC 2983
Db 3207 ATAGTACATTTATTAATGATTTCTGAGGGGCGATATACTAAATGATTTTGTAGAC 3309
Qy 2941 TTCCTGAGGGGCGATATACTAAATGATTTTGTAGAC 2983
Db 3267 TTCCTGAGGGGCGATATACTAAATGATTTTGTAGAC 3309

RESULT 7
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match 99.4%; Score 2966.2; DB 9; Length 3311;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAATCAGGAGATGTACAGCAATGGGCAATTAAGAGTCTGTGTTCACTTGTATT 60
Db 328 GGAATCAGGAGATGTACAGCAATGGGCAATTAAGAGTCTGTGTTCACTTGTATT 387
Qy 61 CTTCACTTCTAGAGGGGCGCTGAGTAATTCATCACTTACGTGACCAACAAATGGCTAT 120
Db 388 CTTCACTTCTAGAGGGGCGCTGAGTAATTCATCACTTACGTGACCAACAAATGGCTAT 447
Qy 121 GAAGGCATTTGCTGTAATCGACCCCAATGTCAGAGATGAACACATCACTCAACAA 180
Db 448 GAAGGCATTTGCTGTAATCGACCCCAATGTCAGAGATGAACACATCACTCAACAA 507
Qy 181 ATAAAGACATGTCAGCCAGCACTCTGPAATCTGTTGAAGCTACAGAAAGCGATTT 240
Db 508 ATAAAGACATGTCAGCCAGCACTCTGPAATCTGTTGAAGCTACAGAAAGCGATTT 567
Qy 241 TATTTCAAAATGTTGCCATTTGATTCCTGAAACATGGAAGCAAAAGGCTGATGTG 300
Db 568 TATTTCAAAATGTTGCCATTTGATTCCTGAAACATGGAAGCAAAAGGCTGATGTG 627
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Qy 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA 360
Db 628 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA 687
Qy 361 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAATCTGTGGAGAGAGGGTGAAGGATC 420
Db 688 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAATCTGTGGAGAGAGGGTGAAGGATC 747
Qy 421 CACCTCACTCCTGATTTTATTGAGGAAATTTAGTCTGAATATGACCAACAGGTAGG 480
Db 748 CACCTCACTCCTGATTTTATTGAGGAAATTTAGTCTGAATATGACCAACAGGTAGG 807
Qy 481 GCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT 540
Db 808 GCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT 867
Qy 541 GAGAAATTTCTACTTTTCCATGGAATATCAAGCAGTAAAGTGTTCAGCAGGTATTACT 600
Db 868 GAGAAATTTCTACTTTTCCATGGAATATCAAGCAGTAAAGTGTTCAGCAGGTATTACT 927
Qy 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGCATTC 660
Db 928 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGCATTC 987
Qy 661 AATAAGTAAACAGGACTCTATGAAAAAGATGTGAGTGTTCCTCAATCCCGCCAGACG 720
Db 988 AATAAGTAAACAGGACTCTATGAAAAAGATGTGAGTGTTCCTCAATCCCGCCAGACG 1047
Qy 721 GAGAAGGCTTCTAATGTTTGCACAAATGTTGATTTATAGTGAATTTCTGTACAGAA 780
Db 1048 GAGAAGGCTTCTAATGTTTGCACAAATGTTGATTTATAGTGAATTTCTGTACAGAA 1107
Qy 781 CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAGCACA 840
Db 1108 CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAGCACA 1167
Qy 841 TGGGAAGTATCGGTGATTTCTGAGGACTTTAAGAAAACCACTCTATGACACACAGCCA 900
Db 1168 TGGGAAGTATCGGTGATTTCTGAGGACTTTAAGAAAACCACTCTATGACACACAGCCA 1227
Qy 901 CCAATCCCACTTCTCATTTGTCAGATTTGCAAAAGATTTGTTAGTCTCTGAC 960
Db 1228 CCAATCCCACTTCTCATTTGTCAGATTTGCAAAAGATTTGTTAGTCTCTGAC 1287
Qy 961 AAATCTGGAAGCATGGGCACTGTAACCGCTCAATCGACTGAATCAAGCGGCGAGCTT 1020
Db 1288 AAATCTGGAAGCATGGGCACTGTAACCGCTCAATCGACTGAATCAAGCGGCGAGCTT 1347
Qy 1021 TTCCTGTCAGACAGTTGAGTGGGCTCCTGGGTGGGATGGTGACATTTGACAGTGTCT 1080
Db 1348 TTCCTGTCAGACAGTTGAGTGGGCTCCTGGGTGGGATGGTGACATTTGACAGTGTCT 1407
Qy 1081 GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGAGTACAGGACACACTCGCC 1140
Db 1408 GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGAGTACAGGACACACTCGCC 1467
Qy 1141 AAAAGATTACCTGAGCAGCTTCAAGGAGGAGCGTCCATCTGCAGCGGCGCTTCGATCGCA 1200
Db 1468 AAAAGATTACCTGAGCAGCTTCAAGGAGGAGCGTCCATCTGCAGCGGCGCTTCGATCGCA 1527
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Db 1528 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAATTTGCTGCTGACCGAT 1587
Qy 1261 GGGGAGACAACTATAGTGGGTCTTTAAAGAGTCAAAACAAAGTGGTGGCATCATC 1320
Db 1588 GGGGAGACAACTATAGTGGGTCTTTAAAGAGTCAAAACAAAGTGGTGGCATCATC 1647
Qy 1321 CACACAGTCTGTTGGGCGCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA 1380
Db 1648 CACACAGTCTGTTGGGCGCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA 1707
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1381	Y	GGAGGTTTACAGACATATGCTTCAGATCAAGTTT	1440	2788	Db	GCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTT	2847
1708	b	GGAGGTTTACAGACATATGCTTCAGATCAAGTTT	1767	2521	QY	ACTTTTGAATATGGCACAGATCTTTTCTTCTTCTT	2580
1441	Y	GGGGCCCTTTATCAGGAAATGGAGCTGCTCTCT	1500	2848	Db	ACTTTTGAATATGGCACAGATCTTTTCTTCTTCTT	2907
1768	b	GGGGCCCTTTATCAGGAAATGGAGCTGCTCTCT	1827	2581	QY	AAATCAGAAATATCCAAATTCGACGAGTATCTTT	2640
1501	Y	GGATTAAACCTCCAGAACAGCCAGTGGATGGAAT	1560	2908	Db	AAATCAGAAATATCCAAATTCGACGAGTATCTTT	2967
1828	b	GGATTAAACCTCCAGAACAGCCAGTGGATGGAAT	1887	2641	QY	GAGACACCTAGTCTCTGATGAAACGTCCTCTCTCT	2700
1561	Y	GGAAAGGACACTTTGTTTCTTATCCTCGGACAA	1620	2968	Db	GAGACACCTAGTCTCTGATGAAACGTCCTCTCTCT	3027
1888	b	GGAAAGGACACTTTGTTTCTTATCCTCGGACAA	1947	2701	QY	ATTCTCTGGCATTCACATTTTAAATTTTAAATTTT	2760
1621	Y	GATCCAGTGGACAGAACAGGCTGCTTTTGTAGT	1680	3028	Db	ATTCTCTGGCATTCACATTTTAAATTTTAAATTTT	3087
1948	b	GATCCAGTGGACAGAACAGGCTGCTTTTGTAGT	2007	2761	QY	ATAGCCTAGGGCTGAATTTTGTCTAGATAAAAT	2820
1681	Y	CTCCAAATCCAGGCAATGCTAAGTTGGCACTT	1740	3088	Db	ATAGCCTAGGGCTGAATTTTGTCTAGATAAAAT	3146
2008	b	CTCCAAATCCAGGCAATGCTAAGTTGGCACTT	2067	2821	QY	TTATAAAATTTTCTAAATGTAATTTTAAATGTA	2880
1741	Y	CAAACTTGACCTGACTGTACGTCCTCGGTCCAA	1800	3147	Db	TTATAAAATTTTCTAAATGTAATTTTAAATGTA	3206
2068	b	CAAACTTGACCTGACTGTACGTCCTCGGTCCAA	2127	2881	QY	ATAGTACATTTTACTAAATGTAATTTTAAATGTA	2940
1801	Y	GTGACTTCCAAACAGAACAGGACACAGCAAT	1860	3207	Db	ATAGTACATTTTACTAAATGTAATTTTAAATGTA	2983
2128	b	GTGACTTCCAAACAGAACAGGACACAGCAAT	2187	2941	QY	TTCTCTAGGGGGCGGATAAAATGCTAAACAACT	3066
1861	Y	AATATTGCGCAAGAGGCTCCCAATTTCTCAGG	1920	3267	Db	TTCTCTAGGGGGCGGATAAAATGCTAAACAACT	3309
2188	b	AATATTGCGCAAGAGGCTCCCAATTTCTCAGG	2247	RESULT 8			
1921	Y	GTGAATGGAAAACAGTTACTTGGAACTTGGTA	1980	US-10-025-380-1056			
2248	b	GTGAATGGAAAACAGTTACTTGGAACTTGGTA	2307	; Sequence 1056, Application US/10025380			
1981	Y	AAGGATGACGGTCTCTACTCAAGTATTTTCA	2040	; Publication No. US20020182191A1			
2308	b	AAGGATGACGGTCTCTACTCAAGTATTTTCA	2367	; GENERAL INFORMATION:			
2041	Y	GTAAAAGTCGGGCTCTGGAGAGGATTAACG	2100	; APPLICANT: Xu, Jiangchun			
2368	Db	GTAAAAGTCGGGCTCTGGAGAGGATTAACG	2427	; APPLICANT: Lodes, Michael J.			
2101	QY	AGTGGACACTGTACATACCTGCTGATTCGAA	2160	; APPLICANT: Secrist, Heather			
2428	Db	AGTGGACACTGTACATACCTGCTGATTCGAA	2487	; APPLICANT: Benson, Darin R.			
2161	QY	AGACTCAAAATTAATAGGATGATTTTCAACA	2220	; APPLICANT: Meagher, Madeleine Joy			
2488	Db	AGACTCAAAATTAATAGGATGATTTTCAACA	2547	; APPLICANT: Stolk, John A.			
2221	QY	TCGGAGGCTCAATTTGGCTCTGATGTCCTCA	2280	; APPLICANT: Wang, Tongtong			
2548	Db	TCGGAGGCTCAATTTGGCTCTGATGTCCTCA	2607	; APPLICANT: Jiang, Yugu			
2281	QY	CCTGGCCAAATCACCGACCTGAAGCGGAAT	2340	; APPLICANT: Smith, Carole L.			
2608	Db	CCTGGCCAAATCACCGACCTGAAGCGGAAT	2667	; APPLICANT: King, Gordon E.			
2341	QY	TGGACAGCTCTCTGGGGATGATTTATGACCA	2400	; APPLICANT: Wang, Aijun			
2668	Db	TGGACAGCTCTCTGGGGATGATTTATGACCA	2727	; APPLICANT: Clapper, Jonathan D.			
2401	QY	AGTCAAGATTTCTTGATCTCAGAGACAAAGT	2460	; APPLICANT: Skeiky, Yasir A. W.			
2728	Db	AGTCAAGATTTCTTGATCTCAGAGACAAAGT	2787	; APPLICANT: Fanger, Gary R.			
2461	Y	GCTCTCATCCCAAGGAGCAACTCTGAGGAAGT	2520	; APPLICANT: Vedwick Thomas S.			

RESULT 8  
US-10-025-380-1056  
; Sequence 1056, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 99.4%; Score 2966.2; DB 13; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;



QY 1 GAAATCAGGGAGATGTACAGCAATGGGCCAATTAAAGAGTCTGTGTTTCATCTTGATT 60  
Db |||||  
328 GGAATCAGGGAGATGTACAGCAATGGGCCAATTAAAGAGTCTGTGTTTCATCTTGATT 387  
QY 61 CTTTCACCTTCTAGAAAGGGCCCTGAGTAAATTCATCTCATTCAGCTGAACAAATGGCTAT 120  
Db |||||  
388 CTTTCACCTTCTAGAAAGGGCCCTGAGTAAATTCATCTCATTCAGCTGAACAAATGGCTAT 447  
QY 121 GAAGGCATTTGCTGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 180  
Db |||||  
448 GAAGGCATTTGCTGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 507  
QY 181 ATAAAGCAGATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGTACAGGAAGCGGATTT 240  
Db |||||  
508 ATAAAGCAGATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGTACAGGAAGCGGATTT 567  
QY 241 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300  
Db |||||  
568 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG 627  
QY 301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGATCTACTCTCTCCA 360  
Db |||||  
628 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGATCTACTCTCTCCA 687  
QY 361 GGTAAATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATC 420  
Db |||||  
688 GGTAAATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATC 747  
QY 421 CACCTCAGCTCTGATTTTCAATGAGGAAAGTGTAGCTGAATATGACCAAGGTAGG 480  
Db |||||  
748 CACCTCAGCTCTGATTTTCAATGAGGAAAGTGTAGCTGAATATGACCAAGGTAGG 807  
QY 481 GCATTTGCTCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACAGGTACATATGAT 540  
Db |||||  
808 GCATTTGCTCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACAGGTACATATGAT 867  
QY 541 GAGAAATTTCTATTCCAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTTACT 600  
Db |||||  
868 GAGAAATTTCTATTCCAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTTACT 927  
QY 601 GGTACAAATGTATGAAGAGTGTGAGGAGCAGCTGTATACCAAAAGATGCAATTC 660  
Db |||||  
928 GGTACAAATGTATGAAGAGTGTGAGGAGCAGCTGTATACCAAAAGATGCAATTC 987  
QY 661 AATAAGTTAAGGAGTCTATGAAAGAGTGTGAGTGTGTTCTCAATCCCGCAGAG 720  
Db |||||  
988 AATAAGTTAAGGAGTCTATGAAAGAGTGTGAGTGTGTTCTCAATCCCGCAGAG 1047  
QY 721 GAGAAAGTCTCTAATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db |||||  
1048 GAGAAAGTCTCTAATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
QY 781 CAABAACCAACAAAGAGTCTCAACAAAGCAAAATCAAAATGCAATCTCCGAGCACA 840  
Db |||||  
1108 CAABAACCAACAAAGAGTCTCAACAAAGCAAAATCAAAATGCAATCTCCGAGCACA 1167  
QY 841 TGGAAAGTGTATCCGTGATTTCTGAGGACTTTAAGAAACCACTCTATGACAAACAGCCA 900  
Db |||||  
1168 TGGAAAGTGTATCCGTGATTTCTGAGGACTTTAAGAAACCACTCTATGACAAACAGCCA 1227  
QY 901 CCAAAATCCACCTTCTCATTTGCTGAGATTTGCAAAAGAAATGTTGTTTGTAGTCTTTCAC 960  
Db |||||  
1228 CCAAAATCCACCTTCTCATTTGCTGAGATTTGCAAAAGAAATGTTGTTTGTAGTCTTTCAC 1287  
QY 961 AAATCTGGAAGCATGGGACTGTGTAACCGCTCAATCGACTGAATCAAGAGGCGAGCTT 1020  
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1288 AAATCTGGAAGCATGGGACTGTGTAACCGCTCAATCGACTGAATCAAGAGGCGAGCTT 1347  
QY 1021 TTCCTGCTGACAGCAGTTGAGCTGGGGTCTGGGTTGGAGTGGTGAATTTGACAGTGTCT 1080  
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1348 TTCCTGCTGACAGCAGTTGAGCTGGGGTCTGGGTTGGAGTGGTGAATTTGACAGTGTCT 1407

QY 1081 GCCCATGTACAAAGTGAACATCATACAGATAAACAGTGCAGTGACAGGGACACACTCGCC 1140  
Db |||||  
1408 GCCCATGTACAAAGTGAACATCATACAGATAAACAGTGCAGTGACAGGGACACACTCGCC 1467  
QY 1141 AAAGAGATTACTCTGAGCAGCTTCAGGAGGAGCTTCATCTGTCAGGGGCTTCGATCGCA 1200  
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1468 AAAGAGATTACTCTGAGCAGCTTCAGGAGGAGCTTCATCTGTCAGGGGCTTCGATCGCA 1527  
QY 1201 TTATCTGTGATTAGGAAGAAATATCCAACTGATGAGTCTGAAATTTGTGCTGCTACCGAT 1260  
Db |||||  
1528 TTATCTGTGATTAGGAAGAAATATCCAACTGATGAGTCTGAAATTTGTGCTGCTACCGAT 1587  
QY 1261 GGGAGAGCAACACTATTAAGTGGTGTCTTAAACAGAGTCAAAACAAAGTGTGCCATCATC 1320  
Db |||||  
1588 GGGAGAGCAACACTATTAAGTGGTGTCTTAAACAGAGTCAAAACAAAGTGTGCCATCATC 1647  
QY 1321 CACACAGTCTGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGTGTCCAAATGACA 1380  
Db |||||  
1648 CACACAGTCTGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGTGTCCAAATGACA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTGCTCATTTGATGCTTTT 1440  
Db |||||  
1708 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTGCTCATTTGATGCTTTT 1767  
QY 1441 GGGGCCCTTTTCATCAGAAATGGAGTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAG 1500  
Db |||||  
1768 GGGGCCCTTTTCATCAGAAATGGAGTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAG 1827  
QY 1501 GGATTAACCTCCAGACAGCAGTGGATGAATGGACAGTGTGATGTCAGACAGCACCGTG 1560  
Db |||||  
1828 GGATTAACCTCCAGACAGCAGTGGATGAATGGACAGTGTGATGTCAGACAGCACCGTG 1887  
QY 1561 GGAAAGGACACTTTGTTTCTTATCACTGAGCAACAGCAGCTCCCAATCTTCTCTGG 1620  
Db |||||  
1888 GGAAAGGACACTTTGTTTCTTATCACTGAGCAACAGCAGCTCCCAATCTTCTCTGG 1947  
QY 1621 GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAACCAACAAATGGCTTAC 1680  
Db |||||  
1948 GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAACCAACAAATGGCTTAC 2007  
QY 1681 CTCCTCAATCCAGGCAATTTGCTTAAGTGTGGCACTTGGAATACAGTGTGCAAGCAAGCTCA 1740  
Db |||||  
2008 CTCCTCAATCCAGGCAATTTGCTTAAGTGTGGCACTTGGAATACAGTGTGCAAGCAAGCTCA 2067  
QY 1741 CAAACCTTGACCTTCACTGTCACTGCTCCGCTGCTCCAAATGCTACCTGCTCCAAATTACA 1800  
Db |||||  
2068 CAAACCTTGACCTTCACTGTCACTGCTCCGCTGCTCCAAATGCTACCTGCTCCAAATTACA 2127  
QY 1801 GTGACTTCCAAACGAAACAGGACACCAAGCAATTTCCCGAGCCCTCTGCTAGTTTATGCA 1860  
Db |||||  
2128 GTGACTTCCAAACGAAACAGGACACCAAGCAATTTCCCGAGCCCTCTGCTAGTTTATGCA 2187  
QY 1861 AATATTGCCCAAGGAGCTCCCAATTTCTAGGGCAGTGTGTCAGCCCTGATGAAATCA 1920  
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2188 AATATTGCCCAAGGAGCTCCCAATTTCTAGGGCAGTGTGTCAGCCCTGATGAAATCA 2247  
QY 1921 GTGAATGGAAACACAGTTTACCTTGGAACTACTGATTAATGAGCAGGCTGTGCTACT 1980  
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QY 1981 AAGGATGACGGTGTCTACTCAAGGTATTTTCAACTTATGACCAATGTTAGTATACAGT 2040  
Db |||||  
2308 AAGGATGACGGTGTCTACTCAAGGTATTTTCAACTTATGACCAATGTTAGTATACAGT 2367  
QY 2041 GTAAAGTGGGGCTCTGGGAGAGGTTAAACGAGCCAGAGGAGTGTATCCCCAGCAG 2100  
Db |||||  
2368 GTAAAGTGGGGCTCTGGGAGAGGTTAAACGAGCCAGAGGAGTGTATCCCCAGCAG 2427  
QY 2101 AGTGGAGCAGTGTACATACCTGCTGGATTTGAGATGATGAAATACAAATGGAATCCACCA 2160  
Db |||||  
2428 AGTGGAGCAGTGTACATACCTGCTGGATTTGAGATGATGAAATACAAATGGAATCCACCA 2487  
QY 2161 AGACCTGAAATTAATAGGATGATGTTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2220

Db 2488 AGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGACATCC 2547  
Qy 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCA 2607  
Qy 2281 CTTGCCAAATCACCGACTGAGCGGGAATTCACGGGGGAGTCTCATTAATCTGACT 2340  
Db 2608 CTTGCCAAATCACCGACTGAGCGGGAATTCACGGGGGAGTCTCATTAATCTGACT 2667  
Qy 2341 TGGCAGCTCTGGGGAGGATATGACCATGGAACAGCTCAAAAGTATATCATTCGAATA 2400  
Db 2668 TGGCAGCTCTGGGGAGGATATGACCATGGAACAGCTCAAAAGTATATCATTCGAATA 2727  
Qy 2401 AGTCAAGTATCTTGTGATCTCAGACACAGTTCATGAATCTCTTCAAGTGAATCTACT 2460  
Db 2728 AGTCAAGTATCTTGTGATCTCAGACACAGTTCATGAATCTCTTCAAGTGAATCTACT 2787  
Qy 2461 GCTCTCATCCAAAGAGCCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAACATTT 2520  
Db 2788 GCTCTCATCCAAAGAGCCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAACATTT 2847  
Qy 2521 ACTTTGAAATGGCACAGATCTTTTTCATTTGCTATTTTCAAGCTGTTGATAGGTGATCTG 2580  
Db 2848 ACTTTGAAATGGCACAGATCTTTTTCATTTGCTATTTTCAAGCTGTTGATAGGTGATCTG 2907  
Qy 2581 AAATCAGAAATATCCAACTATGACGAGTATCTTTTATCTCTCCACAGACTCCGCCA 2640  
Db 2908 AAATCAGAAATATCCAACTATGCAAGTATCTTTTATCTCTCCACAGACTCCGCCA 2967  
Qy 2641 GAGACACCTAGTCTGATGAAAGCTGCTCTTGTCTTGTCTTAAATTTATATCAACAGCACC 2700  
Db 2968 GAGACACCTAGTCTGATGAAAGCTGCTCTTGTCTTGTCTTAAATTTATATCAACAGCACC 3027  
Qy 2701 ATTCCTGGCATTCACATTTTAAATATGCGAAGTGTAGAGAGTGTAGAGTGTGCTA 2760  
Db 3028 ATTCCTGGCATTCACATTTTAAATATGCGAAGTGTAGAGAGTGTAGAGTGTGCTA 3087  
Qy 2761 ATAGCCTAGGCTGAATTTTGTGAGATATTAATAAATAAATCAATCTCTTTTGTGA 2820  
Db 3088 ATAGCCTAGGCTGAATTTTGTGAGATATTAATAAATAAATCAATCTCTTTTGTGA 3146  
Qy 2821 TTATAAAATTTCTAAATGATTTTGTAGACTTCTGTAGGGGGGATATCTAAATGTAT 2880  
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Qy 2881 ATAGTACATTTACTAAATGATTTCTGTAGGGGGGATATCTAAATGTATTTTAGAC 2940  
Db 3207 ATAGTACATTTACTAAATGATTTCTGTAGGGGGGATATCTAAATGTATTTTAGAC 3266  
Qy 2941 TTCTGTAGGGGGGATATAAATAAATAAATGCTAAACAACTGGGTA 2983  
Db 3267 TTCTGTAGGGGGGATATAAATAAATAAATGCTAAACAACTGGGTA 3309

RESULT 9  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA

i ORGANISM: human  
US-10-393-590-11  
Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;  
Qy 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTCTATCTTGTATT 60  
Db 328 GGAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTCTATCTTGTATT 387  
Qy 61 CTTACCTTCTAGAAAGGGCCCTGAGTAATTTCACTATTCACTGCTGAAACAAATGGCTAT 120  
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Qy 121 GAAGCATTGCTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACAACTCATTTCAACAA 180  
Db 448 GAAGCATTGCTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACAACTCATTTCAACAA 507  
Qy 181 ATAAAGGACATGGTGACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATT 240  
Db 508 ATAAAGGACATGGTGACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATT 567  
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Qy 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 360  
Db 628 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 687  
Qy 361 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCACTGTGGAGAGAGGTTGAAAGATC 420  
Db 688 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCACTGTGGAGAGAGGTTGAAAGATC 747  
Qy 421 CACCTCCTCTGATTTTCAATGCGAGAAAAGTTAGCTCAATATCGACAGTACAAATATG 480  
Db 748 CACCTCCTCTGATTTTCAATGCGAGAAAAGTTAGCTCAATATCGACAGTACAAATATG 807  
Qy 481 GCATTTGCTCAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
Db 808 GCATTTGCTCAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 867  
Qy 541 GAGAAATTTCTACTTATCCAAATGGAAGAATAAAGCAGTAAAGTGTTCAGCAGGTATTACT 600  
Db 868 GAGAAATTTCTACTTATCCAAATGGAAGAATAAAGCAGTAAAGTGTTCAGCAGGTATTACT 927  
Qy 601 GGTACAAATGTAGTAAAGTCTCAGGGAGGAGCTGTACACCAAAAGATGCACATTC 660  
Db 928 GGTACAAATGTAGTAAAGTCTCAGGGAGGAGCTGTACACCAAAAGATGCACATTC 987  
Qy 661 AATAAGTACAGGACTCTATGAAAAGGATGTGAGTTTGTCTTCCAAATCCCGCCAGACG 720  
Db 988 AATAAGTACAGGACTCTATGAAAAGGATGTGAGTTTGTCTTCCAAATCCCGCCAGACG 1047  
Qy 721 GAGAAAGCTTCTATAATGTTTGCAACAATGTTGATTTCTATGTTGATTTCTGTACAGAA 780  
Db 1048 GAGAAAGCTTCTATAATGTTTGCAACAATGTTGATTTCTATGTTGATTTCTGTACAGAA 1107  
Qy 781 CAAACCCACAAAGAGAGTCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA 840  
Db 1108 CAAACCCACAAAGAGAGTCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA 1167  
Qy 841 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTCTATGACAAACAGCCA 900  
Db 1168 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTCTATGACAAACAGCCA 1227  
Qy 901 CCAATCCCACTTCTCATGCTGCAGATGGGACAAAGATTTGTGTTTGTAGTCTCTGAC 960  
Db 1228 CCAATCCCACTTCTCATGCTGCAGATTTGGACAAAGATTTGTGTTTGTAGTCTCTGAC 1287  
Qy 961 AAATCTGGAAGCATGGGAGCTGTAACCGCTCAATCGACTGAATCAAGAGCGGCGAGCTT 1020

Db 1288 AATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGCGAGCTT 1347  
Qy 1021 TTCTGCTGCAGACAGATTGAGCTGGGTCTCGGTGTGGGATGATGACATTTGACAGTGCT 1080  
Db 1348 TTCTGCTGCAGACAGATTGAGCTGGGTCTCGGTGTGGGATGATGACATTTGACAGTGCT 1407  
Qy 1081 GCCCATGTACAAAGTGAATCTATACAGATAAACAAGTGGCAGTGCAGGGACACACTCGCC 1140  
Db 1408 GCCCATGTACAAAGTGAATCTATACAGATAAACAAGTGGCAGTGCAGGGACACACTCGCC 1467  
Qy 1141 AAAAGATTACCTGCAGCAGCTTCAGGAGGACGTCATCTGCAGCGGGCTTCGATCGGCA 1200  
Db 1468 AAAAGATTACCTGCAGCAGCTTCAGGAGGACGTCATCTGCAGCGGGCTTCGATCGGCA 1527  
Qy 1201 TTCTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGGCTGCTGACGGAT 1260  
Db 1528 TTCTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGGCTGCTGACGGAT 1587  
Qy 1261 GGGGAAGACAACTATTAAGTGGGTCTTTAAACGAGTCAAAACAAAGTGGTGCATCATC 1320  
Db 1588 GGGGAAGACAACTATTAAGTGGGTCTTTAAACGAGTCAAAACAAAGTGGTGCATCATC 1647  
Qy 1321 CACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1380  
Db 1648 CACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1707  
Qy 1381 GGAGGTTTACAGACATATCTTTCAGATCAAGTTTCAGAACTAGAGAGCTGTCCAAAATGACA 1440  
Db 1708 GGAGGTTTACAGACATATCTTTCAGATCAAGTTTCAGAACTAGAGAGCTGTCCAAAATGACA 1767  
Qy 1441 GGGGCCCTTTTCATCAGGAATGAGTGTCTCTCAGCGTCCATCAGCTTCAGAGTAAG 1500  
Db 1768 GGGGCCCTTTTCATCAGGAATGAGTGTCTCTCAGCGTCCATCAGCTTCAGAGTAAG 1827  
Qy 1501 GGATTAACCTCTCCAGAACAGCAGTGGATGATGACAGTGTATGTCGACAGCAGCGTG 1560  
Db 1828 GGATTAACCTCTCCAGAACAGCAGTGGATGATGACAGTGTATGTCGACAGCAGCGTG 1887  
Qy 1561 GGAAGGACACTTTGTTTCTTATCACTTGGACAAAGCAGCTCCCAATCTCTCTCGG 1620  
Db 1888 GGAAGGACACTTTGTTTCTTATCACTTGGACAAAGCAGCTCCCAATCTCTCTCGG 1947  
Qy 1621 GATCCAGTGGACAGAGAGTGGCTTTGAGTGGACAAACCAACCAAAATGGCTTAC 1680  
Db 1948 GATCCAGTGGACAGAGAGTGGCTTTGAGTGGACAAACCAACCAAAATGGCTTAC 2007  
Qy 1681 CTCCTCAATCCAGGCAATTTGCTAAGTGTGCACTTGGAAATACAGTGTGCAAGCAAGCTCA 1740  
Db 2008 CTCCTCAATCCAGGCAATTTGCTAAGTGTGCACTTGGAAATACAGTGTGCAAGCAAGCTCA 2067  
Qy 1741 CAACCTTGACCTGACTGTGACGTCCTCGGTGCTCAATGCTACCTCGCTCCCAATTACA 1800  
Db 2068 CAACCTTGACCTGACTGTGACGTCCTCGGTGCTCAATGCTACCTCGCTCCCAATTACA 2127  
Qy 1801 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCCTCCAGCTCTGCTAGTTTATGCA 1860  
Db 2128 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCCTCCAGCTCTGCTAGTTTATGCA 2187  
Qy 1861 AATATTTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTGACAGCTGATTTGAATCA 1920  
Db 2188 AATATTTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTGACAGCTGATTTGAATCA 2247  
Qy 1921 GTGAATGGAAACAGTTTACCTTGGAACTACTGGAATATGAGCAGAGTGTGATGCTACT 1980  
Db 2248 GTGAATGGAAACAGTTTACCTTGGAACTACTGGAATATGAGCAGAGTGTGATGCTACT 2307  
Qy 1981 AAGATGACGCTGTCTACTCAAGTATTTTCAACTTATGACAGCAATGGTAGATACAGT 2040  
Db 2308 AAGATGACGCTGTCTACTCAAGTATTTTCAACTTATGACAGCAATGGTAGATACAGT 2367  
Qy 2041 GTAAAGTGGGGCTCTGGGAGGAGTTAAAGCAGCAGAGAGGAGTGTATCCCCAGAG 2100  
Db 2368 GTAAAGTGGGGCTCTGGGAGGAGTTAAAGCAGCAGAGAGGAGTGTATCCCCAGAG 2427

Qy 2101 AGTGAGCAGCTGTATCATACCTGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCA 2160  
Db 2428 AGTGAGCAGCTGTATCATACCTGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCA 2487  
Qy 2161 AGACCTGAAATTTAATAGGATGATTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2220  
Db 2488 AGACCTGAAATTTAATAGGATGATTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2547  
Qy 2221 TCGGGAGGCTCATTTTGTGGCTTCTGATGTCCTCAAAATGCTCCCATACCTGATCTCTTCCCA 2280  
Db 2548 TCGGGAGGCTCATTTTGTGGCTTCTGATGTCCTCAAAATGCTCCCATACCTGATCTCTTCCCA 2607  
Qy 2281 CTTGGCCAAATCAACCGACCTGAAAGGGGGGAAATTCAGGGGGGAGTCTCTATTAATCTGACT 2340  
Db 2608 CTTGGCCAAATCAACCGACCTGAAAGGGGGGAAATTCAGGGGGGAGTCTCTATTAATCTGACT 2667  
Qy 2341 TGGACAGCTCCTGGGGATGATTTATGACCATGGAACAGCTCACAAAGTATATCATTCGAATA 2400  
Db 2668 TGGACAGCTCCTGGGGATGATTTATGACCATGGAACAGCTCACAAAGTATATCATTCGAATA 2727  
Qy 2401 AGTACAAGTATTTCTTCTGATCTCAGAGACAAAGTTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
Db 2728 AGTACAAGTATTTCTTCTGATCTCAGAGACAAAGTTTCAATGAATCTCTTCAAGTGAATCTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTTTTAAACCCAGAAAAACATT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTTTTAAACCCAGAAAAACATT 2847  
Qy 2521 ACTTTTGAATGAGGACAGATCTTTTCAATGCTATTCAGGCTGTTGATAGGTCGATCTG 2580  
Db 2848 ACTTTTGAATGAGGACAGATCTTTTCAATGCTATTCAGGCTGTTGATAGGTCGATCTG 2907  
Qy 2581 AAATCAGAAATATCCAAACATTCACAGAGTATCTTGTGTTTATTCCTCCACAGACTCCGCCA 2640  
Db 2908 AAATCAGAAATATCCAAACATTCACAGAGTATCTTGTGTTTATTCCTCCACAGACTCCGCCA 2967  
Qy 2641 GAGACCTAGTCTGATGAAACGTCCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700  
Db 2968 GAGACCTAGTCTGATGAAACGTCCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3027  
Qy 2701 ATTCCTGCAATTCATTTTAAATTTATGGAAGTGGATAGGAGAACTGCAGCTGTCA 2760  
Db 3028 ATTCCTGCAATTCATTTTAAATTTATGGAAGTGGATAGGAGAACTGCAGCTGTCA 3087  
Qy 2761 ATAGCTAGGCTGAAATTTTGTGAGATAAATAAATAAATCAATCACTCTTTTGA 2820  
Db 3088 ATAGCTAGGCTGAAATTTTGTGAGATAAATAAATAAATCAATCACTCTTTTGA 3146  
Qy 2821 TTATAAATTTTCTAAATGTTTATTTAGACTTCTCTAGGGGGGATATCTAAATGAT 2880  
Db 3147 TTATAAATTTTCTAAATGTTTATTTAGACTTCTCTAGGGGGGATATCTAAATGAT 3206  
Qy 2881 ATAGTACATTTATCTAAATGTTTCTCTAGGGGGGATATCTAAATGATTTTGA 2940  
Db 3207 ATAGTACATTTATCTAAATGTTTCTCTAGGGGGGATATCTAAATGATTTTGA 3266  
Qy 2941 TTCCTAGGGGGGATATAAATAAATAAATAAATGCTAAACCACTGGGTA 2983  
Db 3267 TTCCTAGGGGGGATATAAATAAATAAATAAATGCTAAACCACTGGGTA 3309

RESULT 10  
US-10-393-590-12  
; Sequence 12, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789

Wed Oct 20 10:24:52 2004

; PRIOR FILING DATE: 2002-03-29  
 ; NUMBER OF SEQ ID NOS: 100  
 ; SOFTWARE: PatentIn version 3.11  
 ; SEQ ID NO 12  
 ; LENGTH: 3311  
 ; TYPE: DNA  
 ; ORGANISM: human  
 US-10-393-590-12

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
 Best Local Similarity 99.9%; Pred. No. 0;  
 Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY	1	GAAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTCTGTGTTCACTTGATT	60
DB	328	GGAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTCTGTGTTCACTTGATT	387
QY	61	CTTCACTTCTAGAAGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAAACAATGGCTAT	120
DB	388	CTTCACTTCTAGAAGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAAACAATGGCTAT	447
QY	121	GAAAGCATTTGCTTGCAATCGAACCCCAATGTGCCAGAGATGAACACTCTCACTCAACAA	180
DB	448	GAAAGCATTTGCTTGCAATCGAACCCCAATGTGCCAGAGATGAACACTCTCACTCAACAA	507
QY	181	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
DB	508	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	567
QY	241	TATTTCAAAAATGTTGCCATTTTGATTCTCTGAACATGGAACAGCAAGGCTGACTATGTG	300
DB	568	TATTTCAAAAATGTTGCCATTTTGATTCTCTGAACATGGAACAGCAAGGCTGACTATGTG	627
QY	301	AGACCAAAATCTGAGACCTTACAAAATGCTGTATGTTCTGTTGCTGAGTCTACTCTCTCA	360
DB	628	AGACCAAAATCTGAGACCTTACAAAATGCTGTATGTTCTGTTGCTGAGTCTACTCTCTCA	687
QY	361	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGATC	420
DB	688	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGATC	747
QY	421	CACCTACCTCTGATTTTCATTCAGGAAAGAGTTAGCTGAATATGACCAACAGGTAGG	480
DB	748	CACCTACCTCTGATTTTCATTCAGGAAAGAGTTAGCTGAATATGACCAACAGGTAGG	807
QY	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAATAATGAT	540
DB	808	GCATTTGTCATGAGTGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAATAATGAT	867
QY	541	GAGAAATTCCTATTATCCAATGGAAGAAATACAGCAGTAAGATGTTGACGAGTATTACT	600
DB	868	GAGAAATTCCTATTATCCAATGGAAGAAATACAGCAGTAAGATGTTGACGAGTATTACT	927
QY	601	GGTACAATGTAGTAAGAGTGTTCAGGAGGAGCTGTACACCAAAAGATGCACATTC	660
DB	928	GGTACAATGTAGTAAGAGTGTTCAGGAGGAGCTGTACACCAAAAGATGCACATTC	987
QY	661	AATAAAGTAAACAGGACTCTATGAAAAGAGTGTGAGTTGTTCTTCCAATCCCGCAGAG	720
DB	988	AATAAAGTAAACAGGACTCTATGAAAAGAGTGTGAGTTGTTCTTCCAATCCCGCAGAG	1047
QY	721	GAGAAGGCTTCTATAATGTTTGGCAACATGTTGATTTCTATAGTTGAATTTCTGACAGAA	780
DB	1048	GAGAAGGCTTCTATAATGTTTGGCAACATGTTGATTTCTATAGTTGAATTTCTGACAGAA	1107
QY	781	CAAAACACACAAAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGGACACA	840
DB	1108	CAAAACACACAAAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGGACACA	1167
QY	841	TGGGAAGTGTATCCGTTGATTTCTGAGGACTTTAAGAAAACCACTCTCTATGACAAACAG	900
DB	1168	TGGGAAGTGTATCCGTTGATTTCTGAGGACTTTAAGAAAACCACTCTCTATGACAAACAG	1227

QY	901	CCAAATCCCACTTCTCATTTGCTCAGATTGGACAAAGAAATGTGTGTTAGTCTTGAC	960
DB	1228	CCAAATCCCACTTCTCATTTGCTCAGATTGGACAAAGAAATGTGTGTTAGTCTTGAC	1287
QY	961	AAATCTGGAAGCATGGGACATGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1020
DB	1288	AAATCTGGAAGCATGGGACATGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1347
QY	1021	TTCTGCTGACAGACAGTTGAGCTGGGTCTGGGTGGGATGGTGAATTTGACAGTGTCT	1080
DB	1348	TTCTGCTGACAGACAGTTGAGCTGGGTCTGGGTGGGATGGTGAATTTGACAGTGTCT	1407
QY	1081	GCCCATGTACAAAAGTGAATCTCATACAGATAAACAGTGGCAGTGAACAGGACACACTCGCC	1140
DB	1408	GCCCATGTACAAAAGTGAATCTCATACAGATAAACAGTGGCAGTGAACAGGACACACTCGCC	1467
QY	1141	AAAAGATTACCTGAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGCTTCGATCGGCA	1200
DB	1468	AAAAGATTACCTGAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGCTTCGATCGGCA	1527
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGTCAGCGAT	1260
DB	1528	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGTCAGCGAT	1587
QY	1261	GGGGAAGACAACTATTAAGTGGGTCTTTAAAGAGGTCAAAACAAAGTGGTGGCATCATC	1320
DB	1588	GGGGAAGACAACTATTAAGTGGGTCTTTAAAGAGGTCAAAACAAAGTGGTGGCATCATC	1647
QY	1321	CACACAGTCTGTTGGGGCCCTTCGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA	1380
DB	1648	CACACAGTCTGTTGGGGCCCTTCGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA	1707
QY	1381	GGAGGTTTACACACATATGCTTTCAGATCAAGTTTCAGAAACAATGGCTCAATGATGCTTT	1440
DB	1708	GGAGGTTTACACACATATGCTTTCAGATCAAGTTTCAGAAACAATGGCTCAATGATGCTTT	1767
QY	1441	GGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1500
DB	1768	GGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1827
QY	1501	GGATTAACCTTCAGAAACAGCAGCTGGATGAAATGGCAGAGTGTCTGGAACACACCGTG	1560
DB	1828	GGATTAACCTTCAGAAACAGCAGCTGGATGAAATGGCAGAGTGTCTGGAACACACCGTG	1887
QY	1561	GGAAAGGACACTTTGTTTCTTATCAGTGAACAGCAGCTCCCAAAATCTCTCTG	1620
DB	1888	GGAAAGGACACTTTGTTTCTTATCAGTGAACAGCAGCTCCCAAAATCTCTCTG	1947
QY	1621	GATCCCAGTGGACAGAAAGAGTGGTGTGTTAGTGAACAAACACCAAAATGGCCCTAC	1680
DB	1948	GATCCCAGTGGACAGAAAGAGTGGTGTGTTAGTGAACAAACACCAAAATGGCCCTAC	2007
QY	1681	CTCAAAATCCAGGCTTGTAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
DB	2008	CTCAAAATCCAGGCTTGTAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067
QY	1741	CAAACTTGAACCTGACTGTCACTCCGCTGCGTCCAAATGCTACCTGCCCTCCAATTACA	1800
DB	2068	CAAACTTGAACCTGACTGTCACTCCGCTGCGTCCAAATGCTACCTGCCCTCCAATTACA	2127
QY	1801	GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCGCCAGCTCTGGTAGTTTATGCA	1860
DB	2128	GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCGCCAGCTCTGGTAGTTTATGCA	2187
QY	1861	AATATTCCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCAAGCCCTGATTGAATCA	1920
DB	2188	AATATTCCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCAAGCCCTGATTGAATCA	2247
QY	1921	GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGATAATGAGCAGGTGCTGATCTACT	1980
DB	2248	GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGATAATGAGCAGGTGCTGATCTACT	2307
QY	1981	AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACACGAATGGTAGATACAGT	2040

Db	2308	AAGGATGACGGTGTCTTCACTCAAGGTAATTTCAACACTTATGACACGAAATGGTAGATACAGT	23367
QY	2041	GTAAAGTGCGGGCTCTCGGAGGAGTTAAACGACGACGACGAGAGTGTATCCCGACGAG	21100
Db	2368	GTAAAGTGCGGGCTCTCGGAGGAGTTAAACGACGACGACGAGAGTGTATCCCGACGAG	2427
QY	2101	AGTGAGCACGTACATACCTGGCTGGATTGAGATGATGAATAAATCAATGGAATCCACCA	2160
Db	2428	AGTGAGCACGTACATACCTGGCTGGATTGAGATGATGAATAAATCAATGGAATCCACCA	2487
QY	2161	AGACCTGAAATTAATAAGGATGATCTCAACACAGCAAGTGTGTTTCAGCAAGACATCC	2220
Db	2488	AGACCTGAAATTAATAAGGATGATCTCAACACAGCAAGTGTGTTTCAGCAAGACATCC	2547
QY	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTTTCCCA	2280
Db	2548	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTTTCCCA	2607
QY	2281	CCTGGCCAAATCACCGACCTCAAGCGGGAATTCACGGGGGAGTCTCATTAATCTGACT	2340
Db	2608	CCTGGCCAAATCACCGACCTCAAGCGGGAATTCACGGGGGAGTCTCATTAATCTGACT	2667
QY	2341	TGACACGCTCGTGGGATGATTATGACCATGGAACAGCTCAAAAGTATCATTCGAATA	2400
Db	2668	TGACACGCTCGTGGGATGATTATGACCATGGAACAGCTCAAAAGTATCATTCGAATA	2727
QY	2401	AGTACAAAGTATCTTGATCTCAGACAGAGTTCAATGAATCTTCAAGTGAATACTACT	2460
Db	2728	AGTACAAAGTATCTTGATCTCAGACAGAGTTCAATGAATCTTCAAGTGAATACTACT	2787
QY	2461	GTCTCATGCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACACGAAACATT	2520
Db	2788	GTCTCATGCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACACGAAACATT	2847
QY	2521	ACTTTTGAATAAGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTGATAAGTGCATCTG	2580
Db	2848	ACTTTTGAATAAGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTGATAAGTGCATCTG	2907
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QY	2641	GAGACACTAGTCTCGATGAAGAGCTGCTCTGTCTTGTCTTAATTCATATCAACAGCACC	2700
Db	2968	GAGACACTAGTCTCGATGAAGAGCTGCTCTGTCTTGTCTTAATTCATATCAACAGCACC	3027
QY	2701	ATTCTGGCAITTCACATTTTAAATAATTATGTGGAAGTGGATAGGAGACTGCAGCTGTCA	2760
Db	3028	ATTCTGGCAITTCACATTTTAAATAATTATGTGGAAGTGGATAGGAGACTGCAGCTGTCA	3087
QY	2761	ATAGCCTAGGCGTGAATTTTCTCAGATAAAATAAATAATCATTCATCTTTTTTTTGA	2820
Db	3088	ATAGCCTAGGCGTGAATTTTCTCAGATAAAATAAATAATCATTCATCTTTTTTTTGA	3146
QY	2821	TTATAAAATTTTCTAAAATGTATTTTAGACTTCTCTGTAGGGGGGATATCTAAATGTAT	2880
Db	3147	TTATAAAATTTTCTAAAATGTATTTTAGACTTCTCTGTAGGGGGGATATCTAAATGTAT	3206
QY	2881	ATAGTACATTTATCTAAATGTATTTCTCTGTAGGGGGGATATCTAAATGTATTTTAGAC	2940
Db	3207	ATAGTACATTTATCTAAATGTATTTCTCTGTAGGGGGGATATCTAAATGTATTTTAGAC	3266
QY	2941	TTCTCTGTAGGGGGGATATAAATAAATCAATCTGGGTA	2983
Db	3267	TTCTCTGTAGGGGGGATATAAATAAATCAATCTGGGTA	3309

RESULT 11

US-10-393-590-46

; Sequence 46, Application US/103933590

; Publication No. US20030190656A1

; GENERAL INFORMATION:

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; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 46
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-46

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Query Match	99.4%;	Score	2966.2;	DB	15;	Length	3311;
Best Local Similarity	99.9%;	Pred.	No. 0;				
Matches	2979;	Conservative	0;	Mismatches	3;	Indels	1;
Gaps	1;						
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Db	328	GGAATATCAGGGAGATGTACAGCAATGGGCCAATTAAGAGTTCGTGTTCATCTTGATT	387				
QY	61	CTTCACCTCTTAGAAGGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAAATGCTAT	120				
Db	388	CTTCACCTCTTAGAAGGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAAATGCTAT	447				
QY	121	GAGGCATGTGCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCACAA	180				
Db	448	GAGGCATGTGCTGCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCACAA	507				
QY	181	ATAAGGACATGTTGACCCAGGCAATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTT	240				
Db	508	ATAAGGACATGTTGACCCAGGCAATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTT	567				
QY	241	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAGACAAAGCTGCATATGTG	300				
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Db	628	AGACCAAACTTGAGACCTTCAAAAATGCTGATGTTCTGTGTTGCTGAGTCTACTCTCCA	687				
QY	361	GGTAATGATGAACCTTACACTGACAGATGGGCATCTGTGGAGAGAAAGGTGAAAGGATC	420				
Db	688	GGTAATGATGAACCTTACACTGACAGATGGGCATCTGTGGAGAGAAAGGTGAAAGGATC	747				
QY	421	CACCTCAGCTCTGATTTCTATTGTCAGCAAAAAGTTAGCTGAATATGCACACAGGTAGG	480				
Db	748	CACCTCAGCTCTGATTTCTATTGTCAGCAAAAAGTTAGCTGAATATGCACACAGGTAGG	807				
QY	481	GCAATGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT	540				
Db	808	GCAATGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT	867				
QY	541	GAGAAATTTCTACTTATCCAAATGGAAGATACAGCAAGTAAGATGTTTCAGCAGGTATTACT	600				
Db	868	GAGAAATTTCTACTTATCCAAATGGAAGATACAGCAAGTAAGATGTTTCAGCAGGTATTACT	927				
QY	601	GGTACAAATGTAGTAAAGAAAGTGTACAGGAGGCAGCTGTTTACACCAAAAGATGCATTC	660				
Db	928	GGTACAAATGTAGTAAAGAAAGTGTACAGGAGGCAGCTGTTTACACCAAAAGATGCATTC	987				
QY	661	AATAAGTAAACAGGACTCTATGAAAAGATGTGAGTTGTTTCTCCAATCCCGCCAGACG	720				
Db	988	AATAAGTAAACAGGACTCTATGAAAAGATGTGAGTTGTTTCTCCAATCCCGCCAGACG	1047				
QY	721	GAGAAGGCTTCTATAATGTTTGGCAACATGTTGATTTCTATAGTTGAAATTTGTGACAGAA	780				
Db	1048	GAGAAGGCTTCTATAATGTTTGGCAACATGTTGATTTCTATAGTTGAAATTTGTGACAGAA	1107				
QY	781	CAAAACCAACAAAGAGCTTCCAAAACAAAGCAAAATCAAAATGCAATCTCCGAGGCACA	840				

Db	1108	CAAAACCAACAAAGAGCTCCAAACGAAATCAAAATGCAATCTCCGAGCACA	1167	1921	GTGAATGAAAAACAGTTACCTTGGAACTACTGGATTAATGGAGCAGGTGCTGATCTACT	1980
Qy	841	TGGGAAGTGATCCGTGATCTGAGGACTTTAAAGAAAAACCACTCTCTATGACAAACAGCCA	900	2248	GTGAATGAAAAACAGTTACCTTGGAACTACTGGATTAATGGAGCAGGTGCTGATCTACT	2307
Db	1168	TGGGAAGTGATCCGTGATCTGAGGACTTTAAAGAAAAACCACTCTCTATGACAAACAGCCA	1227	1981	AAGGATGACGGTGCTACTCAAGGTATTTCAACATTTATGACACGAATGGTAGATACAGT	2040
Qy	901	CCAAATCCCACTTCTCATTTGCTGAGATTCGAAAGAAATGTTGTTAGTCTCTGAC	960	2308	AAGGATGACGGTGCTACTCAAGGTATTTCAACATTTATGACACGAATGGTAGATACAGT	2367
Db	1228	CCAAATCCCACTTCTCATTTGCTGAGATTCGAAAGAAATGTTGTTAGTCTCTGAC	1287	2041	GTAAAGTGGGGCTCTGGAGAGGATTTAAACGACCCAGACGAGAGTGATACCCAGCAG	2100
Qy	961	AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1020	2368	GTAAAGTGGGGCTCTGGAGAGGATTTAAACGACCCAGACGAGAGTGATACCCAGCAG	2427
Db	1288	AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1347	2101	AGTGAGCAGCTGTATACATACCTGGCTGGATTCAGAAATGATGAATCAATGGAATCCACA	2160
Qy	1021	TTCTCTGTCGACAGATTTGAGCTGGCTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1080	2428	AGTGAGCAGCTGTATACATACCTGGCTGGATTCAGAAATGATGAATCAATGGAATCCACA	2487
Db	1348	TTCTCTGTCGACAGATTTGAGCTGGCTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1407	2161	AGACCTGAAATTAATAGGATGATTTCAACACAGCAAGTGTTTTCAGCAGCAACATCC	2220
Qy	1081	GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGAGTGATGACATTTGACAGTGCT	1140	2488	AGACCTGAAATTAATAGGATGATTTCAACACAGCAAGTGTTTTCAGCAGCAACATCC	2547
Db	1408	GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGAGTGATGACATTTGACAGTGCT	1467	2221	TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGTCTCCATACCTGATCTCTCCCA	2280
Qy	1141	AAAAAGTTACCTGACAGCTTCAGGAGGAGCTCCATCTGACGCGGCTTCGATCGGCA	1200	2548	TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGTCTCCATACCTGATCTCTCCCA	2607
Db	1468	AAAAAGTTACCTGACAGCTTCAGGAGGAGCTCCATCTGACGCGGCTTCGATCGGCA	1527	2281	CCTGCGCCAAATCACCGACCTGAAGCGCGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
Qy	1201	TTTACTGTGATTAAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGTGACGAT	1260	2608	CCTGCGCCAAATCACCGACCTGAAGCGCGAAATTCACGGGGGAGTCTCATTAATCTGACT	2667
Db	1528	TTTACTGTGATTAAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGTGACGAT	1587	2341	TCGACAGCTCTGGGATGATTTAGCCATGCAACAGCTCACAAGTATATCATTTCCAAATA	2400
Qy	1261	GGGGAAGACAACATATAAGTGGTCTTTAAGAGGTCAACAAAGTGGTCCATCATC	1320	2668	TCGACAGCTCTGGGATGATTTAGCCATGCAACAGCTCACAAGTATATCATTTCCAAATA	2727
Db	1598	GGGGAAGACAACATATAAGTGGTCTTTAAGAGGTCAACAAAGTGGTCCATCATC	1647	2401	AGTACAAGTATTTCTGATCTCAGACAGCAAGTTCATTAATCTCTTCAAGTGAATCTACT	2460
Qy	1321	CACACAGTGTCTTGGGCGCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACA	1380	2728	AGTACAAGTATTTCTGATCTCAGACAGCAAGTTCATTAATCTCTTCAAGTGAATCTACT	2787
Db	1648	CACACAGTGTCTTGGGCGCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACA	1707	2461	GTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAACCCAGAAACATT	2520
Qy	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAATGCGCTCAATGATCTTTT	1440	2788	GTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAACCCAGAAACATT	2847
Db	1708	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAATGCGCTCAATGATCTTTT	1767	2521	ACTTTTGAATTTGGACAGATCTTTTTCATTCGATTTTCAGGCTCTTGATAGGTGCTGCTG	2580
Qy	1441	GGGCGCCCTTTTATCAGGAATTTGAGTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAG	1500	2848	ACTTTTGAATTTGGACAGATCTTTTTCATTCGATTTTCAGGCTCTTGATAGGTGCTGCTG	2907
Db	1768	GGGCGCCCTTTTATCAGGAATTTGAGTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAG	1827	2581	AAATCGAATATCCCAACATTCACAGATTCATTCGAGTATCTTTGTTTATCCTCCACAGACTCCGCA	2640
Qy	1501	GGATTAAACCTCCAGAACAGCCAGTGAATGACAGTGTGATCGTGGACAGCACCGTG	1560	2908	AAATCGAATATTCACCAATTCACAGTATCTTTGTTTATCTCTCCACAGACTCCGCA	2967
Db	1828	GGATTAAACCTCCAGAACAGCCAGTGAATGACAGTGTGATCGTGGACAGCACCGTG	1887	2641	GAGACACCTAGTCTGTGATGAAACGTCTGCTCTCTTCTTATATTCATATTCACAGCACC	2700
Qy	1561	GGAAAGGACACTTTTGTCTTATCACCTGGACAAACGAGCGCTCCCAAAATCCTTCTCTGG	1620	2968	GAGACACCTAGTCTGTGATGAAACGTCTGCTCTCTTCTTATATTCATATTCACAGCACC	3027
Db	1888	GGAAAGGACACTTTTGTCTTATCACCTGGACAAACGAGCGCTCCCAAAATCCTTCTCTGG	1947	2701	ATTCTGGCATTCACATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	2760
Qy	1621	GATCCAGTGGACAGAAAGGCTGTTTGTAGTGACAAAACACCAAAATGGCTTAC	1680	3028	ATTCTGGCATTCACATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	3087
Db	1948	GATCCAGTGGACAGAAAGGCTGTTTGTAGTGACAAAACACCAAAATGGCTTAC	2007	2761	ATAGCTAGGCTGAAATTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	2820
Qy	1681	CTCCAAATCCAGGATTTGCTAAGTGTGGCACTTGGAAATACAGTCTCAAGCAAGCTCA	1740	3088	ATAGCTAGGCTGAAATTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	3146
Db	2008	CTCCAAATCCAGGATTTGCTAAGTGTGGCACTTGGAAATACAGTCTCAAGCAAGCTCA	2067	2821	TTATAAAATTTTCTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	2880
Qy	1741	CAAACTTGAACCTGACTGTACGTCCTGGTGGTCCCAATGCTACGCTGCTCCCAATTTACA	1800	3147	TTATAAAATTTTCTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	3206
Db	2068	CAAACTTGAACCTGACTGTACGTCCTGGTGGTCCCAATGCTACGCTGCTCCCAATTTACA	2127	2881	ATAGTACATTTTATCTAAATCTGATTTTCTGTTAGGCGGATATCTAAATGATTTTATAGAC	2940
Qy	1801	GTGACTTCCAAACGAAACAGACACCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1860	3207	ATAGTACATTTTATCTAAATCTGATTTTCTGTTAGGCGGATATCTAAATGATTTTATAGAC	3266
Db	2128	GTGACTTCCAAACGAAACAGACACCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2187	2941	TTCTCTAGGCGGCGATATAAATGCTAAACAACTGGGTA	2983
Qy	1861	AAATTTGCGCAAGGAGCTTCCCAATTTCTCAGGGCGAGTGTACAGCCCTGATTTGAATCA	1920	3267	TTCTCTAGGCGGCGATATAAATGCTAAACAACTGGGTA	3309
Db	2188	AAATTTGCGCAAGGAGCTTCCCAATTTCTCAGGGCGAGTGTACAGCCCTGATTTGAATCA	2247			



## RESULT 12

US-10-393-590-47  
; Sequence 47, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-47

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;  
QY 1 GAAATCACAGGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATT 60  
Db 328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATT 387  
QY 61 CTTCACTCTTAGAAGGGCCCTGAGTAATCACTCAATTCAGCTGAACAACTAGCTAT 120  
Db 388 CTTCACTCTTAGAAGGGCCCTGAGTAATCACTCAATTCAGCTGAACAACTAGCTAT 447  
QY 121 GAAGGCATTGTCGTTCAATCGACCCCAATGTCGATCTGTTTGAAGCTACAGGAAGCGATT 180  
Db 448 GAAGGCATTGTCGTTCAATCGACCCCAATGTCGATCTGTTTGAAGCTACAGGAAGCGATT 507  
QY 181 ATAAAGGACATGGTGACCCAGGCACTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
Db 508 ATAAAGGACATGGTGACCCAGGCACTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567  
QY 241 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAAATGGAAGCAAGGCTGACTATGTG 300  
Db 568 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAAATGGAAGCAAGGCTGACTATGTG 627  
QY 301 AGACCAAACTTGACACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 360  
Db 628 AGACCAAACTTGACACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 687  
QY 361 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGTTGAAAGGATC 420  
Db 688 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGTTGAAAGGATC 747  
QY 421 CACCTCACTCTGATTTTCAATTCAGGAAAAGTTAGCTGAATATGGACCAAGGTTAGG 480  
Db 748 CACCTCACTCTGATTTTCAATTCAGGAAAAGTTAGCTGAATATGGACCAAGGTTAGG 807  
QY 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATGAT 540  
Db 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATGAT 867  
QY 541 GAGAAATTTCTACTTATCCAAATGGAAGAATAAAGCAGTAAGATGTTTACAGAGGATTTACT 600  
Db 868 GAGAAATTTCTACTTATCCAAATGGAAGAATAAAGCAGTAAGATGTTTACAGAGGATTTACT 927  
QY 601 GGTACAAATGTAGTAAGAAGTGTACGGAGGAGCTGTTTACACCAAAAGATGACATTC 660  
Db 928 GGTACAAATGTAGTAAGAAGTGTACGGAGGAGCTGTTTACACCAAAAGATGACATTC 987  
QY 661 AATAAGTACAGAGCTCTATGAAGAAGGATGAGTTGTTTCTCCAAATCCCGCAGACG 720  
Db 988 AATAAGTACAGAGCTCTATGAAGAAGGATGAGTTGTTTCTCCAAATCCCGCAGACG 1047

QY 721 GAGAAGGCTTCTATATGTTTGGACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db 1048 GAGAAGGCTTCTATATGTTTGGACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
QY 781 CAAAACCAACAAAGAGCTCCAAACACAGCAAAATCAAAAATGCAATCTCCGAGACAA 840  
Db 1108 CAAAACCAACAAAGAGCTCCAAACACAGCAAAATCAAAAATGCAATCTCCGAGACAA 1167  
QY 841 TGGAAAGTATCGTGTGATTTCTGAGGACTTTTAAAGAAACCACTCTCTATGACAAACAGCCCA 900  
Db 1168 TGGAAAGTATCGTGTGATTTCTGAGGACTTTTAAAGAAACCACTCTCTATGACAAACAGCCCA 1227  
QY 901 CCAATCCCACTTCTCATTTGCTGAGATTGGACAAAGAAATTTGTGTTTGTGCTTGTGAC 960  
Db 1228 CCAATCCCACTTCTCATTTGCTGAGATTGGACAAAGAAATTTGTGTTTGTGCTTGTGAC 1287  
QY 961 AAATCTGGAAGCATGGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTT 1347  
QY 1021 TTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGGTTGGGATGGTGACATTTTGACAGTGT 1080  
Db 1348 TTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGGTTGGGATGGTGACATTTTGACAGTGT 1407  
QY 1081 GCCATGTACAAAGTGAACCTCATACAGATAAAACAGTGGCAGTGACAGGACACACTCGCC 1140  
Db 1408 GCCATGTACAAAGTGAACCTCATACAGATAAAACAGTGGCAGTGACAGGACACACTCGCC 1467  
QY 1141 AAAAGATTACCTGCGAGCAGCTTCAGSAGGAGCTCCATCTGCGAGCGGGCTTGATCGGCA 1200  
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QY 1201 TTTACTGTGATTAGGAAGAAATATCCACTGATGGATCTGAAATTTGTGCTGACGGAT 1260  
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Db 1648 CACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCAAAATGACA 1707  
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Db 1708 GGAGTTTACAGACATATGCTTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCAAAATGACA 1767  
QY 1441 GGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAA 1500  
Db 1768 GGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAA 1827  
QY 1501 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCAGAGTGTGTCGAGCAGCACCCGTG 1560  
Db 1828 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCAGAGTGTGTCGAGCAGCACCCGTG 1887  
QY 1561 GGAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCTCCCAAAATCTCTCTCTGG 1620  
Db 1888 GGAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCTCCCAAAATCTCTCTCTGG 1947  
QY 1621 GATCCAGTGAAGAGAGTGGCTTTGTTAGTGGAACAAAAACCAAAATGGCCTAC 1680  
Db 1948 GATCCAGTGAAGAGAGTGGCTTTGTTAGTGGAACAAAAACCAAAATGGCCTAC 2007  
QY 1681 CTCCAAAATCCAGCATTGCTAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGTCA 1740  
Db 2008 CTCCAAAATCCAGCATTGCTAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGTCA 2067  
QY 1741 CAAACCTTGACCCCTGACTGTCAAGTCCCGTCCCAATGCTACCTGCTCCCAATTACA 1800  
Db 2068 CAAACCTTGACCCCTGACTGTCAAGTCCCGTCCCAATGCTACCTGCTCCCAATTACA 2127  
QY 1801 GTGACTTCCAAAAGCAAGGACACAGCAAAATTTCCCGAGCCCTCTGTGTAGTTTATGCA 1860

Db 2128 GTGACTTCCAAACGAAACAGGACACCCAGCAATTTCCCCAGCCCTCTGGTAGTTTATGCA 2187  
Qy 1861 AATATTGCCAAGAGAGCTCCCAATTTCTCAGGGCCAGTGTACACAGCCCTGATTTGAATCA 1920  
Db 2188 AATATTGCCAAGAGAGCTCCCAATTTCTCAGGGCCAGTGTACACAGCCCTGATTTGAATCA 2247  
Qy 1921 GTGAATGGAAAAACATTTACCTTGGAACTTCTGGAATAATGGAGCAGGTGCTGATCTACT 1980  
Db 2248 GTGAATGGAAAAACATTTACCTTGGAACTTCTGGAATAATGGAGCAGGTGCTGATCTACT 2307  
Qy 1981 AAGGATGACGGTGTCTACTCAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT 2040  
Db 2308 AAGGATGACGGTGTCTACTCAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT 2367  
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Qy 2101 AGTGAGCACTGTACATACCTGGCTGGATTGAGATGATGAATACAAATGGAATCCACCA 2160  
Db 2428 AGTGAGCACTGTACATACCTGGCTGGATTGAGATGATGAATACAAATGGAATCCACCA 2487  
Qy 2161 AGACCTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC 2220  
Db 2488 AGACCTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC 2547  
Qy 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATCTGATCTCTTCCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATCTGATCTCTTCCCA 2607  
Qy 2281 CTGGCCAAATCACGACCTGAAGGCGGAAATTCAGGGGGGAGTCTCATTAATCTGACT 2340  
Db 2608 CTGGCCAAATCACGACCTGAAGGCGGAAATTCAGGGGGGAGTCTCATTAATCTGACT 2667  
Qy 2341 TGGACAGCTCCTGGGATGATTTATGACCATGGAACAGCTCACAAATGATATCATTTGCAATA 2400  
Db 2668 TGGACAGCTCCTGGGATGATTTATGACCATGGAACAGCTCACAAATGATATCATTTGCAATA 2727  
Qy 2401 AGTACAAGTATCTTGATCTCAGAGCAAGTTCAATGAATCTCTCAAGTGAATATCTACT 2460  
Db 2728 AGTACAAGTATCTTGATCTCAGAGCAAGTTCAATGAATCTCTCAAGTGAATATCTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATT 2847  
Qy 2521 ACTTTTGAAATGGCACAGATCTTTTTCATTGCTATTTCAGGCTGTGATAGGTGCTG 2580  
Db 2848 ACTTTTGAAATGGCACAGATCTTTTTCATTGCTATTTCAGGCTGTGATAGGTGCTG 2907  
Qy 2581 AAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTTATCTCTCCACAGATCCGCGCA 2640  
Db 2908 AAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTTATCTCTCCACAGATCCGCGCA 2967  
Qy 2641 GAGACACCTAGTCTGATGAAAGCTGTGCTCTGCTTCTTAAATTCATATCAACAGCACC 2700  
Db 2968 GAGACACCTAGTCTGATGAAAGCTGTGCTCTGCTTCTTAAATTCATATCAACAGCACC 3027  
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Qy 2821 TTATAAATTTTCTAAATGATTTTATGATCTTCTGAGGGGGGATATCTACTAATGAT 2880  
Db 3147 TTATAAATTTTCTAAATGATTTTATGATCTTCTGAGGGGGGATATCTACTAATGAT 3206  
Qy 2881 ATAGTACATTTATATAAATGATTTCTCTGAGGGGGGATATCTAAATGATTTTATGAC 2940

Db 3207 ATAGTACATTTATATAAATGATTTCTCTGAGGGGGGATATCTAAATGATTTTATGAC 3266  
Qy 2941 TTCTGTAGGGGGGATATAAATAAATAAATGCTATAACACTGGGTA 2983  
Db 3267 TTCTGTAGGGGGGATATAAATAAATAAATGCTATAACACTGGGTA 3309

RESULT 13  
US-10-393-567-11  
; Sequence 11, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 249 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-11

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAATCACAGGAGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTCTATCTTGAAT 60  
Db 328 GGAATCACAGGAGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTCTATCTTGAAT 387  
Qy 61 CTTACCTTTCTAAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAAATGCTAT 120  
Db 388 CTTACCTTTCTAAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAAATGCTAT 447  
Qy 121 GAAGGATTTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 180  
Db 448 GAAGGATTTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 507  
Qy 181 ATAAAGGATGTGTGACCCAGGATCTCTGTATCTCTTTGAAGCTACAGGAAAGCGATTT 240  
Db 508 ATAAAGGATGTGTGACCCAGGATCTCTGTATCTCTTTGAAGCTACAGGAAAGCGATTT 567  
Qy 241 TATTTCAAAAATGTTGCCATTTTGTATCTCTGAAACATGGAAGACAAAGGCTGATGTG 300  
Db 568 TATTTCAAAAATGTTGCCATTTTGTATCTCTGAAACATGGAAGACAAAGGCTGATGTG 627  
Qy 301 AGACCAAACTTCAGACCTACAAAATGCTGTATGTTCTGTGCTGAGTCTACTCCTCCA 360  
Db 628 AGACCAAACTTCAGACCTACAAAATGCTGTATGTTCTGTGTTGCTGAGTCTACTCCTCCA 687  
Qy 361 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGATC 420  
Db 688 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGATC 747  
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Db 808 GCATTTGCTCCTAGTGGGCTCATCTACGATGGGAGTATTTTACGAGTACAAATATGAT 867  
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Db 868 GAGAAATTTCTACTTTATCCAAATGGAAGATACAAAGCAGTAAAGTTCAGAGGTATTACT 927  
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Db 928 GGTACAAATGTAGTAAAGAAGTGTCTAGGAGGAGCAGCTGTGTACACCAAAAGATGCACATTC 987  
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Db 988 AATAAAGTTACAGGACTCTATGAAAGAGATGTAGTGTCTCTCAATCCCGCCAGAGC 1047  
QY 721 GAGAAGCTTCTATAATGTTTGCACAACTGTTGATTTCTATAGTTGAAATTTCTGTACAGAA 780  
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Db 1108 CAAAACCAACAAAGAGCTCAAAACAGCAAAATCAAAATGCAATCTCCGAAGCACA 1167  
QY 841 TGGGAAGTGCATCGTCAATCTGAGGACTTTAGAAAACCACTCCTATGACAAACAGGCCA 900  
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Db 1228 CCAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATGTGTGTTTAGTCCCTTGAC 1287  
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Db 1288 AATCTGGAGCATGGCGACTGTAAACCGCTCAATCGACTGAATCAAGACAGCCAGCTT 1347  
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QY 1261 GGGGAAGCAACACATATAAGTGGGTCTTTACGAGGTTCAAAACAAAGTGGTCCCATCATC 1320  
Db 1588 GGGGAAGCAACACATATAAGTGGGTCTTTACGAGGTTCAAAACAAAGTGGTCCCATCATC 1647  
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Db 1648 CACACAGTGCCTTTGGGGCCCTCTCGAGCTCAAGAACTAGAGGAGCTGTCAAAATGACA 1707  
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Db 1708 GGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACATGGCCTCATTTGATGCTTTT 1767  
QY 1441 GGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTAGCGCTCCATCCAGCTTGAGAGTAAG 1500  
Db 1768 GGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
QY 1501 GGAATTAACCTTCCAGAACAGCCAGTGGATGAATGGCAAGTGAATCGTGAAGACCCGCTG 1560  
Db 1828 GGAATTAACCTTCCAGAACAGCCAGTGGATGAATGGCAAGTGAATCGTGAAGACCCGCTG 1887  
QY 1561 GGAAGGACACTTTGTTTCTTATACCTGGCAACGAGCCCTCCCAATCTCTCTCTGG 1620  
Db 1888 GGAAGGACACTTTGTTTCTTATACCTGGCAACGAGCCCTCCCAATCTCTCTCTGG 1947  
QY 1621 GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAAAACCAAAATGGCCCTAC 1680  
Db 1948 GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAAAACCAAAATGGCCCTAC 2007  
QY 1691 CTCMAATCCAGGCAATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
Db 2008 CTCMAATCCAGGCAATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067

QY 1741 CAAAACCTTGACCTTGACTGTCTCAGTCCCGTGGCTCCAAATGCTACCTGCTCCAAATACA 1800  
Db 2068 CAAAACCTTGACCTTGACTGTCTCAGTCCCGTGGCTCCAAATGCTACCTGCTCCAAATACA 2127  
QY 1801 GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATCCCGAGCCCTCTGCTAGTTATGCA 1860  
Db 2128 GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATCCCGAGCCCTCTGCTAGTTATGCA 2187  
QY 1861 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTGTCTCAGCCCTGATTGAATCA 1920  
Db 2188 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTGTCTCAGCCCTGATTGAATCA 2247  
QY 1921 GTGAATGGHAAAACAGTTACTTGGAACTACTCTGGATTAATGGAGAGAGTGTCTGATGTACT 1980  
Db 2248 GTGAATGGHAAAACAGTTACTTGGAACTACTCTGGATTAATGGAGAGAGTGTCTGATGTACT 2307  
QY 1981 AAGGATGACGGTGTCTTACTCAAGGTATTTCAAACTTATGACACGAATGGTAGATACAGT 2040  
Db 2308 AAGGATGACGGTGTCTTACTCAAGGTATTTCAAACTTATGACACGAATGGTAGATACAGT 2367  
QY 2041 GTAAAAGTGCGGGCTCTGGAGGAGTTAACGCGAGCCAGACGGAGAGTGATACCCAGCAG 2100  
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QY 2101 AGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATGAATCAATGGAAATCCACCA 2160  
Db 2428 AGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATGAATCAATGGAAATCCACCA 2487  
QY 2161 AGACCTGAAAATTAATAAGGATGATGTTCAACAACAGCAAGTGTGTTTACGACGAAATCC 2220  
Db 2488 AGACCTGAAAATTAATAAGGATGATGTTCAACAACAGCAAGTGTGTTTACGACGAAATCC 2547  
QY 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTTTCCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTTTCCCA 2607  
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QY 2341 TGGACAGCTCTCGGGATGATTAACCATGGAAAGCTGCAAGTATATCATTCGAATA 2400  
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QY 2401 AGTACAAGTATTTCTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2460  
Db 2728 AGTACAAGTATTTCTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2787  
QY 2461 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTTGTTTAAACCGAAAAACATT 2520  
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QY 2521 ACTTTGAAAATGGCACAGATCTTTTCAATTCCTATTCAGGCTGTGTAAGGTGATCTG 2580  
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Db 2908 AAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA 2967  
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Db 1948 GATCCAGTGGACGAGCAGGTGGCTTTGTTAGTGGCAAAAACACCCAAATGGCCCTAC 2007  
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Qy 2161 AGACTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC 2220  
Db 2488 AGACTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC 2547  
Qy 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGTCCCATACCTGATCTTCCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCAAATGTCCCATACCTGATCTTCCCA 2607  
Qy 2281 CTGGCCAAATCACCGACTGAGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACT 2340  
Db 2608 CTGGCCAAATCACCGACTGAGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACT 2667  
Qy 2341 TGGACAGCTCTGGGGATGATTATGACCATGGAACAGCTCAACAGTATATCATTCGAATA 2400  
Db 2668 TGGACAGCTCTGGGGATGATTATGACCATGGAACAGCTCAACAGTATATCATTCGAATA 2727  
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Db 2728 AGTACAAGTATCTTTGATCTCAGAGACAAGTTCATGATCTCTTCAAGTGAATACTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAGTCTTTTGTGTTTAAACCAGAAACATTT 2520  
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Qy 2521 ACTTTTGAATAATGGCACAGATCTTTTCAATGTTGATTTAGGCTGTTGATAAGGTGCATCTG 2580  
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Db 3267 TTCTGTAGGGGGGATATAAATAAATAAATGCTAAACAACCTGGGTA 3309

## RESULT 15

US-10-393-567-46  
; Sequence 46, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-46

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

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Qy 121 GAAGCATTTGCTTTGCAATCGACCCCAATGTGCCAAGATGAAACACTCATTCACAA 180  
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Qy 181 ATAAGGACATGCTCACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
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Qy	541	GAGAAATTTCTACTTTATCCAAATGGAAGAAATACAAGCAGTAAGATGTTTCAGCAGTATTACT	600
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Qy	781	CAAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCAC	840
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Qy	841	TGGGAAGTATCCGCTGATTTCTGAGGACTTTAAGAAAACCACTCCCTATGACACACAGCA	900
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Qy	901	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATGTGTGTTTACTCTTGAC	960
Db	1228	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATGTGTGTTTACTCTTGAC	1287
Qy	961	AAATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAAATCAAGCAGCCAGCTT	1020
Db	1288	AAATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAAATCAAGCAGCCAGCTT	1347
Qy	1021	TTCTCTGTGCAGACAGTTGAGCTGGGTCCCTGGGTGGGATGGTGACATTTGACAGTGT	1080
Db	1348	TTCTCTGTGCAGACAGTTGAGCTGGGTCCCTGGGTGGGATGGTGACATTTGACAGTGT	1407
Qy	1081	GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGCAGTGACAGGGACACACTCGCC	1140
Db	1408	GCCCATGTACAAAGTGAATCATACAGATAAACAAGTGGCAGTGACAGGGACACACTCGCC	1467
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Db	1468	AAAAGATTACCTGCAGAGCTTTCAGAGGAGCTCCATCTGCAGCGGGCTTCGATCGCA	1527
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Db	1528	TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAATTTGCTGTGACGGAT	1587
Qy	1261	GGGGAAGACAACACTATAAGTGGTGTCTTAAACGAGGTCAAAACAAGTGGTGGCCATCATC	1320
Db	1588	GGGGAAGACAACACTATAAGTGGTGTCTTAAACGAGGTCAAAACAAGTGGTGGCCATCATC	1647
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Db	2068	CAAACTTTGACCTGACTGTACGTCCCGTGGTCAATGTCTACCTGCTCAANTACA	2127
Qy	1801	GTGACTTCCAAAACGAACAGAGACACCAAGCAAAATTTCCAGGCCCTCTGGTAGTTATGCA	1860
Db	2128	GTGACTTCCAAAACGAACAGAGACACCAAGCAAAATTTCCAGGCCCTCTGGTAGTTATGCA	2187
Qy	1861	AATATTCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGGCCCTGATTTGAATCA	1920
Db	2188	AATATTCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGGCCCTGATTTGAATCA	2247
Qy	1921	GTGAATGGAAGAAACAGTTTACCTTGGAACTACTCTGGAATGAGAGGAGTGTGATGCTACT	1980
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Qy	2041	GTAAAGTGGCGGCTCTCGGAGGAGTTAAACGACGACGAGAGTGTATACCCAGCAG	2100
Db	2368	GTAAAGTGGCGGCTCTCGGAGGAGTTAAACGACGACGAGAGTGTATACCCAGCAG	2427
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Qy	2161	AGACCTGAAATTAATAAGGATGATTTCAACACAAAGCAAGTGTGTTTCAGACGAACATCC	2220
Db	2488	AGACCTGAAATTAATAAGGATGATTTCAACACAAAGCAAGTGTGTTTCAGACGAACATCC	2547
Qy	2221	TCGGAGGCTCATTTGTGGCTTCTGATCTCCCAATGCTCCCATACCTGATCTTTCCCA	2280
Db	2548	TCGGAGGCTCATTTGTGGCTTCTGATCTCCCAATGCTCCCATACCTGATCTTTCCCA	2607
Qy	2281	CCTGGCCTCAATCCGACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
Db	2608	CCTGGCCTCAATCCGACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2667
Qy	2341	TGGACAGCTCTCGGGATGATTTATGACCATGGAAACAGCTCAAGTATATCATTCGAATA	2400
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Db	2728	AGTCAAGTATTTCTGATCTCAGACAGAAAGTTCAATGAATCTCTTCAAGTGAATCTACT	2787
Qy	2461	GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGGAACAACT	2520
Db	2788	GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGGAACAACT	2847
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Db	2848	ACTTTTGAATGGCACAGATCTTTTTCATGCTATTCAGGCTGTGTAAGTTCGATCTG	2907
Qy	2581	AAATCAGNAATATCCAACTTGCAGGATCTTTGTTTATCTTCTCCACAGACTCCGCA	2640
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Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

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Perfect score: 5080

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Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5  
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Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 956278

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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16	2258.5	44.5	1000	3	US-09-193-562D-30	Sequence 30, Appl
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22	1996	39.3	943	4	US-09-643-597-161	Sequence 161, App
23	1996	39.3	943	4	US-09-480-884A-161	Sequence 161, App
24	1996	39.3	943	4	US-09-542-615A-161	Sequence 161, App
25	1996	39.3	943	4	US-09-606-421B-161	Sequence 161, App
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27	1996	39.3	943	4	US-09-466-396A-161	Sequence 161, App
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37	1783	35.1	791	4	US-09-643-597-170	Sequence 170, App
38	1783	35.1	791	4	US-09-480-884A-170	Sequence 170, App
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44	1341	26.4	592	4	US-09-643-597-169	Sequence 169, App
45	1341	26.4	592	4	US-09-480-884A-169	Sequence 169, App

#### ALIGNMENTS

#### RESULT 1

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 6  
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 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-623-624-6

## Alignment Scores:

Pred. No.: 0 Length: 914  
 Score: 4754.00 Matches: 913  
 Percent Similarity: 99.8% Conservative: 0  
 Best Local Similarity: 99.8% Mismatches: 1  
 Query Match: 93.58% Indels: 0  
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; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
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; NUMBER OF SEQ ID NOS: 18
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; TYPE: PRT
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US-10-270-595-6
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QY 1825 ACCAGCAAAATCCCGACCCCTCTGTTATGCAATATTTCGCAAGGAGCTCCGCCA 1884  
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTCCACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACCTTG 1944  
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAATCTGTGATATGGAGCGGTGCTGATGCTTACTAAGGATGAGCGTGTCTACTCAAG 2004  
DB 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACACTTATGACACGAATGGTAGATACAGTGTAAAAGTCGGGCTCTCGGAGGA 2064  
DB 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAACGAGCCAGCAGGAGAGTGAATACCCAGCAGAGTGGAGCACTGTACATACCTGC 2124  
DB 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATAATCAATGGAATCCACCAAGACCTGAAATTAATANGATGAT 2184  
DB 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACACAGCAAGTGTGTTTACAGCAAGACATCTCGGAGGCTCAATTTGTGGCTCT 2244  
DB 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGTCTCCATACCTGATCTCTCCACCTGGCCAAATCACCCAGCTGAAG 2304  
DB 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGGAGTCTTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364  
DB 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAACAGCTCACAAATATATCATTCGAATAAGTACAAGTATTCTTGATCTCAGA 2424  
DB 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGTCTCTATCCCAAGGAGCAAC 2484  
DB 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTTACTTTTGAATAAGTGGACAGATCTT 2544  
DB 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCAATGTCTTTCAGGCTCTTCATAGGTCGATCTGAAATCAGAAATATCCAACTGCA 2604  
DB 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAACG 2664  
DB 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTGCTGCTCAATATTCATATCACACACCATTTCTCTGGCATTCACATTTTAAAA 2724  
DB 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 2766  
DB 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914



US-09-193-562D-28

; Sequence 28, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: Activated Chloride Channel-Adhesion Molecules

; CURRENT APPLICATION NUMBER: US/09/193,562D

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-193-562D-28

Alignment Scores:

Pred. No.: 0 Length: 914

Score: 4753.00 Matches: 912

Percent Similarity: 100.00% Conservative: 2

Best Local Similarity: 99.78% Mismatches: 0

Query Match: 93.56% Indels: 0

DB: 3 Gaps: 0

US-09-049-696-18 (1-2813) x US-09-193-562D-28 (1-914)

QY	25	ATGGGGCCATTAGAGTTCTGTGTTTCATCTTGTGATCTTACCTTCTAGAGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCACATTCATTCAGTCGACCAACCAATCGCTATGAGGCATTCGTTGCAATC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTGCCAGAGATGAACACTCATTTCAACAAATAAGGAGCATGGTCACCCAGCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGATCTGTTGAGCTACAGGAAGCGATTTTATTTTCAAAAATGTTGCCATTTG	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTGAACATCGAAGACAAAGGCTGACTATGTGACCAAACTTGACACCTACAAA	324
Db	81	IleProGluThrTriPlysThrLysAlaAspPyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGTATGATGAACCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCAACTGTGAGAGAGGGTGAAGGATCCACCTCACTCCTGATTTCATTGCA	444
Db	121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGTTAGCTGAATATGACCAACAGGTAGGGCATTTGTCATGATGGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTyrAlaHis	160
QY	505	CTACGATGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAA	564
Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGATACCAACAGTATGATGTCAGAGGATTTACTGGTACAAATGAGTAAAGAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGAGCTGTTTACCAACCAAGATGCACATTCATTAAGTAAACAGACATCTATGA	684
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220

QY	685	AAAGGATGTGAGTTGTTGTTCTCCAAATCCCGCCAGACGAGAGGCTTCTATAATGTTGCA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgInThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTCTATAGTTGAATCTCTCAGACACAAACACACACAAAGCTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAAGCAAAATCAAAAATGCAATCTCGAAGACACATGGGAAGTGCATCGTCAATCTGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACITTAAGAAAACCACTCTTATGACAAACACAGCCCAAAATCCCACTTCTCATTTGCTG	924
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATTTGTTTGTCTTCTGACAAATCTGGAGAGCATGGCGCTGCT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGCTGCACAGAGTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGTCTCTGGTGGGATGCTGACATTTGACAGTGTGCCCATGTACAAAGTGAATCTCATA	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGCAGTGACAGGACACACTCCGCCAAAAGATTACCTGCAGAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGACGTCCATCTCTCAGCGGGCTTCGATCGGCATTTACTGTAGGAGAGAAATAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACTGATGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAATAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAACAGGTCACAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTTCAGACATGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGTAAGGATTAACCTCCAGACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGCACAGTGTCTGGGACAGCACCGTGGGAAAGGACACTTTTGTTCCTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACACGAGCTCCCAAAATCTTCTCTGGGATCCCAAGTCCCAAGACAGAGGAGT	1644
Db	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGACAAAAACACCAAAATGGCTACTCCAAATCCCGCCAGTGTGTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCATTGGAAATACAGTCTGCAAGCAAGCTCAGAAACCTTTGACCTGACTGTCAAG	1764
Db	561	ValGlyThrTriPlysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCCGTGGCTCCAAATGCTACCTGCTCCAAATTCAGTGACTTCCAAAACGAAAGGAC	1824

Db	581	SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp	600
QY	1825	ACCAGCAATCCCGAGCCCTCTGTATTTATGCAATATTCGCCAGGAGCCTCCCA	1884
Db	601	ThrSerLysPheProSerProLeuValValTyAlaAlaSerValValTyAlaSerPro	620
QY	1885	ATTCTCAGGGCCAGTGTCCAGCCCTGATTCGAATCAGTGAATGGAACAGTTCCTTG	1944
Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
QY	1945	GAACTACTGGATAATCGAGCAGGTGCTGATCTACTAGGATGCGGTCTTACTCAAGG	2004
Db	641	GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTySerArg	660
QY	2005	TATTTCACACTTATGACCAATGCTAGATACAGTGTAAAGTCGGGCTCTGGAGGA	2064
Db	661	TyrPheThrThrTyAspThrAsnGlyArgTySerValLysValArgAlaLeuGlyGly	680
QY	2065	GTTAACGAGCCAGCAGGAGTGTATACCCAGCAGAGTGGAGCTGTACATCTGCGC	2124
Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyIleProGly	700
QY	2125	TGGATTGGAATGATGAATCAATGAATCCACCAAGACCTGAAATTAATTAAGCATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	2185	GTTCAACACAAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGCTTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	2245	GATGTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCCAATCACCGACCTGAAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	2305	GGGGAATTCACGGGGAGTCTCTATTATCTGCTTGACAGCTCCTGGGATGATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
QY	2365	GACCATGGAACAGCTCACAAATATATCATTCGAATAAGTACAAATGATCTTCATCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyIleIleArgIleSerThrSerIleLeuAspLeuArg	800
QY	2425	GACAAGTTCATGAATCTCTCAAGTGAATACCTGCTCTCATCTCCCAAGAGCCACAC	2484
Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
QY	2485	TCTGAGGAAGTCTTTTGTGTTAAACAGAAACATTTACTTTTGAATAATGGCACAGATCT	2544
Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
QY	2545	TTCAATGCTATTACAGCTGTTGATAGGTGATCTGAAATCAGAAATATCCAACTGCA	2604
Db	841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
QY	2605	CGAGTATCTTTGTTTATCTCCACAGCTCCGCCAGACACCTAGTCTGTGTAAGC	2664
Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
QY	2665	TCTGCTCTCTGCTCAATATTCATATCAACAGCACCATTTCTGGCATTCACATTTTAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	2725	ATTATCTGGAAGTGGATGAGAACTGCAGCTCTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

RESULT 4

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 93.56% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-055-412B-28 (1-914)

QY	25	ATGGGGCCATTTAAGAGTCTGTGTTTCATCTTACCTTCTACCTCTCTAGAGGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCACATTCATTCAGCTGAACCAACATGCTATGAAGCATTTGCTTGCATTCGAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTCGCAAGAGATGAACACTCTTCAACAAATAAGGCATGCTGGTGCACCCAGCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGTATCTGTTTGAAGCTACAGAAAGCATTTTATTTCAAAATGTTGCCATTTTG	264
Db	61	SerLeuTyLeuPheGluAlaThrGlyLysArgPheTyPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTGAAACATGGAAGCAAGCTGACTATGTGAGACCAAACTTGAGACCTCAAAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyValArgProLysLeuGluThrTyLys	100
QY	325	AATGCTGATGTTCTGGTGTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyThrGlu	120
QY	385	CAGATGGGCAACTGTGGAGAGAGGTGAAAGGATCCACCTCACTCTCATTTTCATTGCA	444
Db	121	GlnMetGlyAsnCysGlyGlyGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGTTAGCTGAATATATGACCAACCAAGTAGGGCATTTGTCATGAGTGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyGlyProGlnGlyLysAlaPheValHisIleTrpAlaHis	160
QY	505	CTACAGTGGGAGTATTTTCACAGTACATATGATGAGAAATCTTACTTATCCCAATGCA	564
Db	161	LeuArgTrpGlyValPheAspGluTyAsnAsnAspGluLysPheTyLeuSerAsnGly	180
QY	565	AGAAATCAAGCAGTAGATGTTTTCAGCAGGTATTTACTGGTACAAATGTAGTAAAGAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGGAGGAGCTGTTTACACCAAAAGATGCATTCATTAAGTAACAGACTCTATGAA	684
Db	201	GlnGlyGlySerCysTyThrLysArgCysThrPheAsnLysValThrGlyLeuTyGlu	220
QY	685	AAAGGATGTCAGTCTTCTTCTCAATCCCGCAGCGAGAGGCTTCTATATATGTTTGA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240

QY	745	CAACATGTTGATTCTATAGTTGTAATCTCTGTACAGAACAAAAACACAAAGAGAGCTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	ACACAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTATCTGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTAAGAAACCACTCCTATGACAAACACAGCCACCAATCCACCTTCTCATTTGCTG	924
Db	281	AspPheLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATCTGTGTTTGTAGTCTTGACAAATCTGGAGCATGGCTGCT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	ACCCGCTCAATCGATGCAATCAAGCAGCCAGCTTTTCTGCTGCAGACATTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCGGTGGATGGTGCATTTGACATTTGACATTTGACATTTGACATTTGACATTT	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGSCAGCAGTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGAGTGCATCTGAGCGGGCTTCGATCGGCATTTACTGCTGATTAGGAAGAAATAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysThr	400
QY	1225	CCAACTGATGATCGAAATGTGCTGCTGCGGATGGGAGACAACTATAAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAGAGGTCAAAACAAAGTGGTGCATTCATCCACAGATCGCTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGCTCAAGAACTAGAGAGCTGTCCAAATATGACAGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTCAGAACATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGCAGATGATCGTGACAGCACCGCTGGGAAAGACATTTGTTCTTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACAGCGAGCTCCCAATCTTCTGCGATCCAGTCCAGTGGACAGCAAGGT	1644
Db	521	ThrTrpThrThrGlnProProGlnIleLeuLeuThrAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGGACAAAAACCAAAATGGCTTACCTCCAAATCCCAAGCATTTGCTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCTTGGAAATACAGTCTGCAAGAGCTTCACAAACCTTGCACCTGACTGTCAAG	1764
Db	561	ValGlyThrTrpLysThrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCCGTGGTCCATGTACCTGCTCCCAATACAGTACATTCAGTACATTCACCAAGAGAC	1824
Db	581	SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp	600
QY	1825	ACCAGCAAAATCCCAAGCCCTCTGGTAGTTTATGCAAAATATTGCAAGAGCCTCCCA	1884
Db	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	1885	ATTCTCAGGGCCAGTGTACAGCCCTGATTGATAGTCAATGAGTAAAGAACAGTACTTGTG	1944
Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
QY	1945	GAACTACTGGATAATGGAGCAGTCTGATGCTACTACTAAGGATGACGGTGTCTACTCAAG	2004
Db	641	GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
QY	2005	TATTTCACTTATGACACGAATGGTAGATACAGTGTAAAGTGGGCTCTGGGAGGA	2064
Db	661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
QY	2065	GTTAACGGACGACAGGAGTGTATCCCAAGCAGATGGGAGCAGTGTACTATCTGCTG	2124
Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
QY	2125	TGGATTGAAATGATGAAATACAAATGGAATCCCAAGACCTGAAATTAATAAGGATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	2185	GTTCAACACAGCAAGTCTGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	2245	GATGTCCCAATGTCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCAGCTGAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	2305	CGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGAGATGATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
QY	2365	GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAGATTTCTTGATCTCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg	800
QY	2425	GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGAGAGCCCAAC	2484
Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
QY	2485	TCTCAGGAAGCTTTTGTGTTTAAACCAAGAACATTAATCTTTGAAATGGCACAGATCTT	2544
Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
QY	2545	TTTCTGCTTATTCAGGCTGTGATAAGTTCGATCTGAAATCAGAAATATCCAACTTGCA	2604
Db	841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
QY	2605	CGAGTACTTGTGTTTATTTCTCCACAGCTCCGCGCAGACACCTAGTCTGATGAAACG	2664
Db	861	ArgValSerLeuPheIleProGlnThrProProGlnThrProSerProAspGluThr	880
QY	2665	TCTGCTCTTGTCTTAATATTTCATATCAACAGCACCATTTCTGCAATTCACATTTTAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	2725	ATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

RESULT 5  
US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders

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; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-623-624-2

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Alignment Scores:
Pred. No.: 1,96e-309 Length: 913
Score: 3656.50 Matches: 694
Percent Similarity: 86.99% Conservative: 102
Best Local Similarity: 75.85% Mismatches: 112
Query Match: 71.98% Indels: 7
DB: 4 Gaps: 4

US-09-049-696-18 (1-2813) x US-09-623-624-2 (1-913)

QY 25 ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTCACTTCTAGAGGGGCCCTG 84
Db 1 MetGluSerLeuLysSerProValPheLeuLeuLeuLeuHisLeuLeuGluGlyValLeu 20

QY 85 AGTAATCTACTATTTCAGCTGAACAACATGGCTATGAGGCAATTCGTTGCAATCGAC 144
Db 21 SerGluSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValIleAlaIleAsp 40

QY 145 CCCAATGTGCCAAGATGAACACATCTTCAACAATAAAGACATGTGTGACCCAGGCA 204
Db 41 HisAspValProGluAspGluAlaLeuLeuGlnHisIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTGTTTGAAGCTACAGGAAGCGAATTTATTTCAAAAATGTGTCATTTG 264
Db 61 SerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCCTGAAACATGGAACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 81 IleProGluSerTrpLysAlaLysProGluTyrArgProLysLeuGluThrPheLys 100

QY 325 AATGCTGATCTTCTGTTGTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValSerThrThrSerProLeuGluYAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGCACTGTGGAGAGAGGGTGAAGGATCCACTCTCTCTGATTTTCATTGCA 444
Db 121 HisIleGlyAlaCysGlyGluLysGlyIleArgIleHisLeuThrProAspPheLeuAla 140

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QY 445 GGAATAAAGTTAGCTGAATATGACCAAGGTAGGCAATTTGTCCATGAGTGGCTCAT 504
Db 141 GlyLysLysLeuThrGlnTyrGlyProGlnAspArgThrPheValHisGluTyrAlaHis 160

QY 505 CTACGATGGGAGTATTGACGAGTACAATATGATGAGAAATTTCTACTTTATCCATGGA 564
Db 161 PheArgTrpGlyValPheAsnGluTyrAsnAsnAspGluLysPheTyrLeuSerLysGly 180

QY 565 AGAATACAGCAGTAAGTGTTCAGCAGTATTACTGTACAAATGTAGTAAAGAGTGT 624
Db 181 LysProGlnAlaValArgCysSerAlaAlaIleThrGlyLysAsnGlnValArgCys 200

QY 625 CAGGAGGACGCTGTTACACCAAAA---AGATGCACATTCAATAAAGTAAACAGGACTCAT 681
Db 201 GlnGlyGlySerCysIleThrAsnGlyLysCysValIleAspArgValThrGlyLeuTyr 220

QY 682 GAAAAGGATGTGAGTTTGTCTCAATCCCGCCGACGAGAGAGGCTTCTATATGTTT 741
Db 221 LysAspAsnCysValPheValProAspProHisGlnAsnGluLysAlaSerIleMetPhe 240

QY 742 GCACACACATGTTGATTTCTATAGTTGAATTCGTACAGAAACAAACCAACAAAGAGCT 801
Db 241 AsnGlnAsnIleAsnSerValValGluPheCysThrGluLysAsnHisAsnGlnGluAla 260

QY 802 CCMAACAAGCAAAATCAAAATCTCCGAGCACATCGGAAGTATCGTGAATCT 861
Db 261 ProAsnAspGlnAsnGlnArgCysAsnLeuArgSerThrTrpGluValIleGlnGluSer 280

QY 862 GAGGACTTTAAGAAACCACTCCTTATGACACACAGCCACCAATCCACCTTCTCATGTG 921
Db 281 GluAspPheLysGlnThrThrProMetThrAlaGlnProAlaProThrPheSerLeu 300

QY 922 CTGCAGATGGACAAAGATTTGTGTTTAGTCTTGTACAAATCTGGAGAGCATGGCGACT 981
Db 301 LeuGlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetLeuAsn 320

QY 982 GGTAACCCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTCTCTCGACAGTGTAG 1041
Db 321 AspAspArgLeuAsnArgMetAsnGlnAlaSerArgLeuPheLeuGlnThrValGlu 340

QY 1042 CTGGGGTCTCTGGGTTGGGATGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATC 1101
Db 341 GlnGlySerTrpValGlyMetValThrPheAspSerAlaAlaTyrValGlnSerGluLeu 360

QY 1102 ATACAGATAAACAAGTGGCAGTCACAGGACACACTCGCCAAAGATTACTCTCGACAGCT 1161
Db 361 LysGlnLeuAsnSerGlyAlaAspArgAspLeuLeuIleLysHisLeuProThrValSer 380

QY 1162 TCAGAGGAGGACGCTCCATCTGACGCGGCTTCGATCGCATTTTACTGTGATTAGGAAGAA 1221
Db 381 AlaGlyGlyThrSerIleCysSerGlyLeuArgThrAlaPheThrValIleLysLys 400

QY 1222 TATCCAACTGATGGATCTCAAAATTTGCTGCTGACGAGTGGGAGACACACTAAGT 1281
Db 401 TyrProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSer 420

QY 1282 GGGTGTCTTAACGAGGTCAAAACAAAGTGTGCTCATCATCCACACAGCTCGCTTTGGGGCCC 1341
Db 421 SerCysPheAspLeuValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyPro 440

QY 1342 TCTGACGCTCAAGAACTAGAGGAGCTGTCCAAAATACAGAGGAGGTTTACAGACATATGCT 1401
Db 441 AlaAlaAlaLysGluLeuGlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSer 460

QY 1402 TCGATCAAGTTTCAGAACATGGCTCATTTGATGCTTTTGGGCCCTTTTCATCAGGAAT 1461
Db 461 SerAspGlnValGlnAsnAsnGlyLeuValAspAlaPheAlaLeuSerSerGlyAsn 480

QY 1462 GGAAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAGGAGTTAAACCTCCAGAAC 1521
Db 481 AlaAlaIleAlaGlnHisSerIleGlnLeuGluSerArgGlyValAsnLeuGlnAsnAsn 500

QY 1522 CAGTGGATGAATGGCACAGTGTGCTGGACAGCACCGTGGGAAAGGACATTTGTTTCTT 1581

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[illegible]

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Db      876 AppSerThrProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal 895
QY      2719 TTAATAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTGCAATA 2763
Db      896 LeuLysIleMetTrpLysTrpLeuGlyGluMetGlnValThrLeu 910

RESULT 6
US-10-270-595-2
; Sequence 2, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-270-595-2

Alignment Scores:
Pred. No.: 1,966-309 Length: 913
Score: 3656.50 Matches: 694
Percent Similarity: 86.99% Conservative: 102
Best Local Similarity: 75.85% Mismatches: 112
Query Match: 71.98% Indels: 7
DB: Gaps: 4

US-09-049-696-18 (1-2813) x US-10-270-595-2 (1-913)
QY      25 ATGGGGCCATTTAAAGAGTTCCTGTTTCATCTTGATCTTACCTCTTAGAGGGCCCTG 84
Db      1 MetGluSerLeuLysSerProValPheLeuLeuIleLeuHisLeuLeuGluGlyValLeu 20
QY      85 AGTAATTCATCTCACTCAGCTGAACACAAATGGCTATGAAGGCATCTGCTGTTCGAATCGAC 144
Db      21 SerGluSerLeuIleGlnLeuAsnAsnGlyTrpGluGlyIleValIleAlaIleAsp 40
QY      145 CCCAATGTGCCAGAGATGAACACTCATTCACAAATAAAGCATGTGTGACCCAGGCA 204
Db      41 HisAspValProGluAspGluAlaLeuGlnHisIleLysAspMetValThrGlnAla 60

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280	Thr	Asp	Phe	Gln	Asn	Thr	Ser	Pro	Met	Thr	Glu	Met	Asn	Pro	Pro	Thr	Gln	Pro	Thr	Phe	299
916	TC	ATT	GCT	GAG	ATT	TGC	CAA	AG	AA	T	T	G	T	G	T	T	T	A	G	T	975
300	Ser	Leu	Leu	Val	Ser	Gln	Arg	Val	Val	Cys	Leu	Val	Leu	Asp	Val	Ser	Gly	Ser	Met	319	
976	GC	GAT	TGG	TAA	CCG	CC	TCA	ACT	CA	AT	CA	AG	CAG	CG	AG	T	T	T	T	1035	
320	Ser	Ser	Glu	Asp	Arg	Leu	Phe	Arg	Met	Asn	Gln	Ala	Glu	Leu	Phe	Leu	Gln	Leu	339		
1036	GTT	CAG	CT	GGG	TCT	TGG	T	TGG	T	TGG	T	TGG	T	TGG	T	TGG	T	TGG	T	1095	
340	Ile	Gln	Ser	Gly	Ser	Leu	Val	Gly	Met	Val	Thr	Phe	Asp	Ser	Val	Ala	Glu	Ile	Arg	359	
1096	GAA	CT	CAT	CAG	TAA	CA	G	TGC	AG	TGC	AG	G	AG	CAC	AC	TCC	CC	AAA	GAT	1155	
360	Asn	Leu	Thr	Lys	Ile	Thr	Asp	Asp	Asn	Val	Tyr	Glu	Asn	Ile	Thr	Ala	Asn	Leu	Pro	379	
1156	GCG	ACT	TTC	AGG	AGG	AG	CTC	CA	TCT	CAG	CGG	CTT	CG	AT	TTC	GG	CAT	T	T	1212	
380	Glu	Ala	Asn	Gly	Gly	Thr	Ser	Ile	Cys	Arg	Gly	Leu	Lys	Ala	Gly	Phe	Gln	Ala	Ile	399	
1213	AGA	GAA	AA	AAT	CCA	CT	GAT	GAT	CT	GAA	T	T	G	T	G	T	G	T	G	1272	
400	Gln	Ser	Gln	Ser	Thr	Ser	Gly	Ser	Glu	Ile	Ile	Leu	Leu	Thr	Asp	Gly	Glu	Asp	Asn	419	
1273	ACT	AAT	AGT	GGG	TG	T	TAA	CAG	AGG	T	CAA	CA	AGT	TGG	TCC	AT	C	CAC	AGT	1332	
420	Glu	Ile	His	Ser	Cys	Ile	Glu	Glu	Val	Lys	Gln	Ser	Gly	Val	Ile	Ile	His	Thr	Val	439	
1333	TTG	GGG	CC	TCT	CAC	T	CA	AG	CT	CA	AG	AG	AG	CT	CT	CA	AA	AT	AG	1392	
440	Leu	Gly	Pro	Ser	Ala	Ala	Lys	Glu	Leu	Glu	Thr	Leu	Ser	Asp	Met	Thr	Gly	Gly	His	459	
1393	ACA	TAT	GCT	TC	CAT	CA	AGT	TGC	CA	AT	TGG	CT	CAT	T	T	G	T	T	T	1452	
460	Phe	Tyr	Ala	Asn	Lys	Asp	Ile	-----	Asn	Gly	Leu	Thr	Asn	Ala	Phe	Ser	Arg	Ile	Ser	477	
1453	TCA	GAA	AT	AGG	AG	CT	CT	CT	CAG	CG	CT	CCA	T	CC	AG	CTT	GAG	AGT	AGG	1512	
478	Ser	Arg	Ser	Gly	Ser	Ile	Thr	Gln	Gln	Thr	Ile	Gln	Leu	Glu	Ser	Lys	Ala	Leu	Ala	497	
1513	CAGA	CAG	CCG	TGG	TGA	T	GCA	AGT	AT	GCA	AGT	AT	GCA	AGT	AT	GCA	AGT	AT	GCA	1572	
498	Thr	Glu	Lys	Trp	Val	Asn	Gly	Thr	Val	Pro	Val	Asp	Ser	Thr	Ile	Gly	Asn	Asp	Thr	517	
1573	TTG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	1632	
518	Phe	Phe	Val	Val	Thr	Trp	Thr	Ile	Lys	Lys	Pro	Glu	Ile	Leu	Gln	Asp	Pro	Lys	Gly	537	
1633	CAG	-----	AG	CA	AGG	TGG	T	T	T	T	T	T	T	T	T	T	T	T	T	1683	
538	Lys	Lys	Tyr	Lys	Thr	Ser	Asp	Phe	Lys	Glu	Asp	Lys	Leu	Asn	Ile	His	Ser	Ala	Arg	557	
1684	CAA	AT	CCC	AGG	AT	T	CT	AA	G	T	T	GC	CA	T	CG	AAA	T	A	C	1734	
558	Arg	Ile	Pro	Gly	Ile	Ala	Glu	Thr	Gly	Thr	Trp	Tyr	Ser	Leu	Leu	Asn	His	Ala	577		
1735	AGT	CTA	CAAA	CC	T	T	GAC	CT	GACT	G	TC	AG	CT	CCG	TGG	CT	CA	AT	T	1794	

Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
QY 1975 GCTACTAAGGATGACGGTGTCTACTCAAGGTATTTACAACTTATGACACGAATGGTAGA 2034  
Db 658 AlaThrLysAspAspGlyValTySerArgTyrPheThrThrTyrAspThrAsnGlyArg 677  
QY 2035 TACAGTGTAAGTGGCGGCTCTGGGAGGATTAACGACGACGACGAGAGTATACCC 2094  
Db 678 TyrSerValLysValHisAlaGluAlaAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
QY 2095 CAGCAGAGTGGAGCACTTACATACCTCGCTGGATTGAGATGATGAAATCAATGGAAAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleIleLeuAsn 717  
QY 2155 CCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAAAGCAAGTG---TGTTTCAGC 2211  
Db 718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736  
QY 2212 AGAATCCTCGGAGGCTCAATTTGCTGCTTCTGATGTCCTCAATATGCTCCCATCTGAT 2271  
Db 737 ArgLeuThrSerGlyLysPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
QY 2272 CTCTCCACCTGGGCAATACCCACCTGAAGGCG-----GAAATTCACGGGGC 2322  
Db 757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
QY 2323 AGTCTCATTAACTGACTTGGACAGCTCTCTGGGGATGATTATGACCATGGACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTyrThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
QY 2383 AAGTATATCATCGAATAGTACAGTATCTTGATCTTCAGAGACAGTTCATCAATCACT 2442  
Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAla 812  
QY 2443 CTTCAAGTGAATACTACTCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTG 2502  
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
QY 2503 TTAAACCAAGAAACATTACTTTTCAAAATGGCACAGATCTTTTCAATGCTATTCAGGCT 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
QY 2563 GTTGATAGTCTGATCTGAAATCAGAAATATCCAACTTCAGCATTCAGCAGTATCTTTGTTATT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaLysPheIle 872  
QY 2623 CTTCCACAGACTCCGCGAGACACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880

## RESULT 9

US-10-055-412B-46  
; Sequence 46, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; PRIOR FILING DATE: 2001-10-29  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 46  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
; (Cunningham et al., 1995, J. Biol. Chem., 270:31016-31026)

## US-10-055-412B-46

Alignment Scores:  
Pred. No.: 1,62e-205 Length: 903  
Score: 2462.50 Matches: 494  
Percent Similarity: 71.04% Conservative: 139  
Best Local Similarity: 55.44% Mismatches: 233  
Query Match: 48.47% Indels: 25  
Gaps: 13

## US-09-049-696-18 (1-2813) x US-10-055-412B-46 (1-903)

QY 25 ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGTATCTTACCTTCTAGAGGGGCCCTG 84  
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QY 85 AGTAATTCACATTCCTAGCTGACCAACAATCGCTATGAAGCATTTGTCTGTCATTCGAC 144  
Db 20 LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn 39  
QY 145 CCCAATGTCGACAGATGAACACACTCATTCACAAATAAAGACATGTCGTCGTCATTCGAC 204  
Db 40 ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla 59  
QY 205 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTATTTCAAAAATGTTGCCATTTTG 264  
Db 60 SerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsnValSerIleLeu 79  
QY 265 ATTCCTGAAACATGGAAGACCAAGCTGACTATGTGAGACCAAAACTTGACCTTACAAA 324  
Db 80 IleProMetThrTyrLysSerLysSerLysLeuMetProLysGlnGluSerTyrAsp 99  
QY 325 AATGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 384  
Db 100 GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu 119  
QY 385 CAGATGGCAACTGTGGAGAGAGAGGCTGAAAGGATCCACCTCCTCTGATTTCATTGCA 444  
Db 120 GlnTyrGlyArgCysGlyGluLysGlyIleHisPheThrProAsnPheLeuLeu 139  
QY 445 GGAAAAAGTTAGCTGTAATATGGACCAACAGTAGGCTATTTGTCATGAGTGGGCTCAT 504  
Db 140 ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis 159  
QY 505 CTACATCGGGAGTATTTGACGAGTACATAATATGATGAGAAATTTCTACTTATCC---AAT 561  
Db 160 LeuArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg 179  
QY 562 GGAAGAATACAGCAGTAGTAAAGATGTTTCAGCAGGATTTACTGTGTACAAATGTAGTAAGAG 621  
Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199  
QY 622 TGTCAGGAGGAGCTGTTTACACCAAAAGATGCACATTCATTAATAGTAACAGGACTCAT 681  
Db 200 CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr 219  
QY 682 GAAAGAGATGCTGAGTTGTTCTCCATCCCGCAGGAGGAGAGCTTCTATATATGTTT 741  
Db 220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239  
QY 742 GCACAAACATGTTGATTCTATAGTTGAATTTCTACAGAACAAACCAACAAAGAGCT 801  
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QY 802 CCAACACAGCAAAATCAAAATGCAATCTCCGACGACATGGGAGTGCATCGTGTATCT 861  
Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrThrTrpAspValIleMetAsnSer 279  
QY 862 GAGGACTTTAAGAAAAACCACTCCTATGACA-----ACACAGCCCAAAATCCACCTTC 915  
Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProThrGlnProThrPhe 299  
QY 916 TCATTGCTGCAGATTGGCAAGAAATGTGTGTTTAGTCCTTGACAAATCTGGAAGATG 975

Db 300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319  
QY 976 GCGACTGTAAACCGCTCAATCGACTGAATCAGCAGCCAGCTTTCTCTGCTGCAGACA 1035  
Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaGluLeuPheLeuGlnIle 339  
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Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
QY 1096 GAATCATACATATAACAGTGGCAGTGCAGGACACACATCCGCCAAAAGATTACTCTGCA 1155  
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Db 380 GluAlaAsnGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIle 399  
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; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
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; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473

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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Bos taurus
; US-09-623-624-18

Alignment Scores:
Pred. No.: 4,44e-201 Length: 903
Score: 2411.50 Matches: 483
Percent Similarity: 70.37% Conservative: 144
Best Local Similarity: 54.21% Mismatches: 239
Query Match: 47.47% Indels: 25
DB: 4 Gaps: 13

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QY 85 AGTAATTCACCTACCTGACCTGACCAACAAATGCGTATGAGGCAATGCTGTCACATGAC 144
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360 AsnLeuThrLysIleThrAspAsnValTyrGluAsnIleThrAlaAsnLeuProGln 379
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; Sequence 18, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
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; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
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; PRIOR FILING DATE: 1996-08-23
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Bos taurus
; US-10-270-595-18

Alignment Scores:
Pred. No.: 4,44e-201 Length: 903
Score: 2411.50 Matches: 483
Percent Similarity: 70.37% Conservative: 144
Best Local Similarity: 54.21% Mismatches: 239
Query Match: 47.47% Indels: 25
DB: 4 Gaps: 13

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QY 622 TGTGAGGAGGAGGAGTGTACACCAAAAGATGCACATTCATAAAGTAAACAGGACTTAT 681  
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QY 682 GAAAGAGATGTAGTGTCTCAATCCCGCCAGAGAGGAGGCTCTATAATGTTT 741  
Db 220 GluAlaLysCysThrPheIleProGlyLysSerGlnThrAlaArgGluSerIleMetPhe 239  
QY 742 GCACAACATGTGATTCATAGTTCGAATTCGTGACAGAACAAACACCAAAAGAGCT 801  
Db 240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259  
QY 802 CCACAACAGCAAAATCAAAATGCATCTCCGAAGCACATGGGAAGTATCGTGATTC 861  
Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer 279  
QY 862 GAGGACTTTAAGAAAACCACTCTATGACA-----ACACAGCCACCAATCCCACTTC 915  
Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProProThrGlnProThrPhe 299  
QY 916 TCATTGTCGATGGACAAAGATTTGTGTGTAGTCTTGTGACAAATCTGGAAGCATG 975  
Db 300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319  
QY 976 GCGACTGTAAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTCTCTGTCGAGACA 1035  
Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIle 339  
QY 1036 GTTGAGCTGGGCTCTGGGTTGGGATGTGACATTTGACAGTGTGCGCCATGTACAAAGT 1095  
Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
QY 1096 GAATCATACAGATAAACAGTGGCAGTGCAGGACACACTCGCCMAAAGATTAAGTGC 1155  
Db 360 AsnLeuThrLysIleThrAspAsnValTyrgluAsnIleThrAlaAsnLeuProGln 379  
QY 1156 GCAGCTCAGGAGGAGCTCCATCTGACGGGCTTCGATCGCATTT--ACTGTGATT 1212  
Db 380 GluAlaAsnGlyIleThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIle 399  
QY 1213 AGGAAGAAATATCCAACTGATGATCGAATTTGCTGCTGACGGATGGGAAGACAAAC 1272  
Db 400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419  
QY 1273 ACTATAGTGGGTGCTTTAACGAGGTCAACAAAGTGGTGGCCATCATCCACAGTCTGCT 1332  
Db 420 GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleIleHisThrIleAla 439  
QY 1333 TTGGGCGCTCTGCAGTCAAGAACTAGAGAGCTGTCCAAATATGACAGAGTGTTCACAG 1392  
Db 440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459  
QY 1393 ACATATGCTTCAGATCAAGTTCAGAAATGGCCTCATTTGATGCTTTTGGGCGCTTCA 1452  
Db 460 PheTyraAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
QY 1453 TCAGGAATAGGAGCTGTCTCAGCGCTCCATCCAGTTCAGAGTAAAGGATTAACCTTC 1512  
Db 478 SerArgSerGlySerIleThrGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
QY 1513 CAGAACAGCAGTGGATGAATGGCACAGTGCATCGTGACAGCACCGCTGGGAAGGACACT 1572  
Db 498 ThrGluLysLysTrpValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517  
QY 1573 TTGTTTCTTATACCTGGACAGCAGCTCCCAAAATCTCTCTGGGATCCAGTGGGA 1632  
Db 518 PhePheValValThrTrpThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537

QY 1633 CAG-----AGCAAGGTGGCTTTGTAGTGGACAAA---AACACCAAAATGCGCTACCTC 1683  
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QY 1684 CAATCCAGGCAATTCGCTTAAGCTTGGCACTTGGAAATACAGTCTG-----CAACA 1734  
Db 558 ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrlleSerLeuLeuAsnHisAla 577  
QY 1735 AGCTCACAACCTTGACCCCTGACCTGTCAGTCCCGTGGTCCAATGCTACCTGCTGCTCA 1794  
Db 578 SerProGlnIleLeuThrValThrValThrArgAlaArgSerProThrThrProPro 597  
QY 1795 ATTACAGTGCCTCCAAAACGAAACGACACCAAAATTCAGGGCCAGCTCTGTGTAGTT 1854  
Db 598 ValThrAlaThrAlaHisMetSerGlnAsnThrAlaHisTyrlleProSerProValIleVal 617  
QY 1855 TATGCAAAATATTGCGCAAGGAGCCCTCCCAATTCAGGGCCAGTGTCAAGCCCTGATT 1914  
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle 637  
QY 1915 GAATCAGTGAATGAAAACAGATTCACCTTGGAACTACTGGTAATGAGCAGGCTGCTGAT 1974  
Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
QY 1975 GCTCTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACCAATGCTAGA 2034  
Db 658 ThrValLysAsnAspGlyIleTyrlleSerArgTyrllePheThrAspTyrlleArgLysGlyArg 677  
QY 2035 TACAGTGTAAAGTCCGGGCTCTGGGAGGAGTTAAACGACGACGAGGAGTGTATACC 2094  
Db 678 TyrSerLeuLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
QY 2095 CAGCAGATGGAGACTGTACATACCTGCTGCTGATGAGATGATGAATGAAATACAAATG 2154  
Db 698 ProGlnAsnLysAlaLeuTyrlleProGlyTyrlleGluAsnGlyLysIleLeuAsn 717  
QY 2155 CCACCAAGACCTGAAATTAATAAGGATGATGTTCACACCAAGCAAGTG---TGTTTCAGC 2211  
Db 718 PropProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleLysAlaAsn 736  
QY 2212 AGAATCCTCGGGAGGCTCATTTGTGCTTCTGATGTCCCAATGCTCCCACTGAT 2271  
Db 737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
QY 2272 CTCTCCACCTGGCCCAATCACCCACCTGAAGCGG-----GAAATTCACGGGCGC 2322  
Db 757 ValLeuProProAsnLysIleIleAspLeuGluAlaLysPheLysGluAspHis 774  
QY 2323 AGTCTCTAATACTGACTTGGACAGCTCCTGGGAGTATTATGACCATGGAACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
QY 2383 AAGTATATCATTCGAATAAGTACAAGTATTCTTGTATCTCAGAGACAAGTTCATGATCT 2442  
Db 793 SerTyrlleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAsnAla 812  
QY 2443 CTTCAAGTCAATACTACTCTCTCATCCCAAGGAGCCAACTCTGAGGAGTCTTTTGTG 2502  
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
QY 2503 TTTTAAACCAAGAAACATTACTTTTGAATAATGGCACAGATCTTTTTCATCTCTATTCA 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrlleAlaValGlnAla 852  
QY 2563 GTTGATAAGGTGCATCTGAAATCAGAAATATCCAAATTCACAGATTCAGCAGATCTTTGTTATT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
QY 2623 CTTCCACACACTCCCGCAGACACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880

## RESULT 12

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US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.:      8,228-194      Length:      905
Score:          2328.00      Matches:    465
Percent Similarity: 69.84%      Conservative: 144
Best Local Similarity: 53.33%      Mismatches: 247
Query Match:      45.83%      Indels:    16
DB:                3          Gaps:       11

US-09-049-696-18 (1-2813) x US-09-193-562D-2 (1-905)
QY 46 GTGTTCATCTGATCTTCACTTCTAGAGGGGCCCTGAGTAATCTACTCATTGCTG 105
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Db 8 IleuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 106 AACAAATGCTATGAAGGATGTCGTGCAATCGACCCCAATGTCGCAAGATGAA 165
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 27 IleAsnAsnGlyTyAspGlyLeValIleAlaIleAsnProSerValProGluAspGlu 46
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 166 ACATCTATTCAACAATAAGACATGTCGACCCAGGATCTCTGTATCTTTGAAGCT 225
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyLeuPheHisAla 66
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 226 ACAGGAAGCGATTTATTTCAAAAATGTCCTGATTTGATTCCTGAACATGAGACA 285
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 67 ThrLysArgArgValTyPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 286 AAGCTGACTATGTGAGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCT 345
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 87 LysSerGluTyPheIleProLysGlnGluSerTyAspGlnAlaAspValIleValAla 106
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTTACCTGACGAGATGGGCACTGTGGAGAG 405
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 107 AsnProTyLeuLysTyTyGlyAspAspProTyThrLeuGlnTyArgCysGlyGlu 126
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 406 AAGGTCGAAAGATCCACCTCCTGATTCATTCAGGAAATAGTACGTAATAT 465
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 127 LysGlyLysTyIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTy 146
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 466 GGACCACAAGTAGGGCATTTGTCATGAGTGGGCTCATCTACCATGGGAGATTTTAC 525
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 526 GAGTACATAATGATGAAATTTCTACTATCC---AATGGAAGAATACAAAGCATGAAGA 582
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 167 GluTyAsnValAspGlnProPheTyIleSerArgLysAsnThrIleGluAlaThrArg 186
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 583 TGTTACAGCGATTTACTGTGACAAATAGTAGTA---AAGAGTCTCAGGAGGAGGAGCTGT 639
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 640 TACACCAAAAGATGCATTCATTAATAAGTAACAGGACTCTATGAAAAGGATGTGAGTTT 699
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Db 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuTyLeuAlaLysCysThrPhe 226
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 700 GTTCTCCAATCCGCGACAGACGAGAGGCTTCTATAATGTTTGCACAACATGTTGATCT 759
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 760 ATAGTTGAATCTGTACAGAACAAACCAACAAGAGCTCCAAACAGCAAAATCAA 819
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 820 AAATGCAATCTCCGAAGCACATGGAAGTATCCCTGATCTCTGAGACTTTTAAAGAAACC 879
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 267 MetCysAsnGlyLysSerThrIleValIleMetAsnSerValAspPheGlnAsnThr 286
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 880 ACTCTATGACA-----ACACAGCCACCAATCCCACTCTCTCATTCGTCAGATTGGA 933
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 934 CAAGAATTGTGTTTGTAGTCTCTGCAAAATCTGGAAGCATGGCGACTGGTAACCGCTC 993
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 994 AATCGACTGAATCAAGCAGGCGAGCTTTCTGCTGCGACAGACATGAGCTGGGTCCTCG 1053
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 327 PheGlnMetAsnGlnAlaGluLeuTyLeuIleGlnValIleGluLysGlySerLeu 346
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1054 GTTGGGATGTCACATTTGACAGTGTGCTCCCATGTACAAAGTGAACATCATACAGATAAAC 1113
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1114 AGTGGCAGTGACAGGGACACACTCGCCAAAGATTACTCGCAGCAGCTTCAGGAGGACG 1173
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 367 AspAspAsnValTyGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1174 TCCATCTGACGCGGCTTCGATCGGCATTT---ACTGTGATTAGGAGAAATATCCACT 1230
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleHisSerAspGlnSerThr 406
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1231 GATGGATCTGAAATGTGCTGCTGACGGATGGGGAAGACAACTATAGTGGGTGCTTT 1290
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 407 SerGlySerGluIleLeuLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1291 AACAGGTCAAAACAAAGTGTGTCATCATCACACAGTCGCTTTGGGCGCTCTGCACT 1350
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 427 GluAspValLysArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAlaAla 446
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QY 1351 CAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAA 1410
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyArgPhePheAlaAsnLysAsp 466
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1411 GTTCAGAACAAATGGCTCTCATTTGATGCTTTTGGGCGCTTTTCATCAGAAATGGAGTGC 1470
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1471 TCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACACGCCAGTGGAT 1530
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1531 AATGGCACACTGATCGTGGACACACCGTCGGAAGAGACACTTGTCTTATCATCCTGG 1590
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1591 ACAACGCGCTCCCAAAATCTCTCTGCGATCCCAAGTCGACAG-----AAGCAAGGT 1644
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Db 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysTyLeuThrSer 544
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QY 1645 GGCTTGTAGTGACAAA---AACAACAAATGGCCTTACTCCAAATCCAGGACTGT 1701
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Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
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QY 1702 AAGTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACC 1752
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Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AAATGCAATCTCCGAGACATGGAGATGATCCGCTGATCTGAGACTTTAAGAAACC 879
Db 267 MetCysAsnGlySerThrIlePheValIleMetAsnSerValAspPheGlnAsnThr 286
QY 880 ACTCTATGACA-----ACACAGCCACCAATCCACCTCTCTCATTTGCTGCGATTGGA 933
Db 287 SerProMetThrGluMetAsnProThrHisProThrPheSerLeuLeuLysSerLys 306
QY 934 CAAGAATGTCTGTTAGTCTTACAAATCTGAAGATCGGACATGCGGCTGTAACCGCTC 993
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 994 AATCGACTGAATCAAGCAGCCAGCTTTCTCTGCTGCAGACAGATTGAGCTGGGCTCTGG 1053
Db 327 PheGlnMetAsnGlnAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346
QY 1054 GTTGGATGGTGACATTTGACAGTCTGCCATGTPACAAAGTGAATCATACAGATAAAC 1113
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
QY 1114 AGTGCAGTGACAGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGGGGACG 1173
Db 367 AspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
QY 1174 TCCATCTCAGCGGCTTCGATCGSCATTT---ACTGTGATTAGGAAGAAATATCCAACT 1230
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
QY 1231 GATGGATCTGAATTTGCTGCTGACGGATGGGAAGACACACTATAAGTGGTGGCTTT 1290
Db 407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
QY 1291 AACGAGCTCAACAAAGTGGTGCATCATCCACAGTCGCTTTGGGCGCTCTGCACT 1350
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
QY 1351 CAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAA 1410
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAsp 466
QY 1411 GTTCAGAACAAATGCTCATGATGCTTTGGGCGCTTTTCATCAGGAATGAGCTGTC 1470
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
QY 1471 TCTCAGCGCTCCATCCAGCTTGAGATGAAGGATTAACCTCCAGACAGCCAGCTGGATG 1530
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
QY 1531 AATGGCACAGTGTGCTGGACAGCCGCTGGGAAGGACACTTTGTTTCTTATCACCTGG 1590
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524
QY 1591 ACAAGCAGCGCTCCCAAAATCTCTCTGGATCCCAAGTGACAG-----AAGCAAGGT 1644
Db 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544
QY 1645 GGCTTTGTAGTGACAAA---AACACAAATAGCCCTACCTCCAAATCCAGGCAATGCT 1701
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
QY 1702 AAGGTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACC 1752
Db 565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThr 584
QY 1753 CTGACTGTACGCTCCGCTGCGTCCAAATGCTACCTGCTCCCAATTCAGTGACTCCAAA 1812
Db 585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
QY 1813 ACGAACAGGACACCAAGCAATTTCCCGAGCCCTCTGCTAGTTATGCAATATTCGCCAA 1872
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624
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1873 GGAGCCTCCCAATTTCTCAGGCCAGTGTCTCAGCCCTGATTAATGAATCAGTGAATGAAAA 1932
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleGluThrGluAspGlyHis 644
QY 1933 ACAGTTACTCTGGAACTACTGGATAATGAGCAGAGTGTGATGCTACTTAAGATCAGCGT 1992
Db 645 GlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664
QY 1993 GTTACTACTCAAGTATTTTCCAACTTATCAGCAAGATGCTAGATACAGTGTAAAGTCGG 2052
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHis 684
QY 2053 GCTCTGGGAGAGATTAAACGACGACGAGAGATGATACCCCGACAGAGTGAGACACTG 2112
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704
QY 2113 TACATACCTGGCTGGATTGAGATCATCAATACATAATGGAATCCCAAGACCTGAAATT 2172
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleLeuAsnProProArgProGluVal 724
QY 2173 AATAGGATGATGTTTCAACACACAGCAAGTGTGTTTCAGCAGACATCTCCGGAGGCTCA 2232
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744
QY 2233 TTTGTGGCTTCTGATGTC---CCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAA 2289
Db 745 PheThrValSerGlyAlaProProGlyAsnHisProSerValPheProSerLys 764
QY 2290 ATCACCAGCCTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGACAGCT 2349
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTrpThrAla 783
QY 2350 CCTGGGATGATTTATGACCATGGAACAGCTCACAAAGTATATCATTCGAATAAGTACAAGT 2409
Db 784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803
QY 2410 ATTCTTCACTCAGACAGATTCATGAATCTCTCAAGTGAATACTACTGCTCTCATC 2469
Db 804 PheMetAspArgGlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIle 823
QY 2470 CCAAGGAAGCCACTCTGAGGAGCTCTTTTGTGTTAAACAGAAAAACATTACTTTGAA 2529
Db 824 ProLysGluAlaGlySerLysGluAsnPheGluPheLysProGluHisPheArgValGlu 843
QY 2530 AATGGCACAGATCTTTTTCATTTGCTTATTCAGGCTGTTCATAGGTTCGATCTGAAATCAGAA 2589
Db 844 AsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGlu 863
QY 2590 ATATCCAACTTCGACGAGTATCTTTGTTTATTCCT 2625
Db 864 ValSerHisIleValGlnAlaIleLysPheIlePro 875
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RESULT 14  
US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 630987  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-193-562D-34

Alignment Scores:  
Pred. No.: 1.65e-193 Length: 902  
Score: 2324.50 Matches: 479  
Percent Similarity: 67.90% Conservative: 143  
Best Local Similarity: 52.29% Mismatches: 257  
Query Match: 45.76% Indels: 37  
DB: 3 Gaps: 15

US-09-049-696-18 (1-2813) x US-09-193-562D-34 (1-902)

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QY 1 MetValProGlyLeuGlnValLeuLeuPheLeuThrLeuHisLeuLeuGlnAsnThr--- 19
DB   |||
QY 85 AGTAATCCTCATTAGCTGAAACAAATGGCTATGAAGCATTTGCTTGCATATGAC 144
DB   |||
QY 20 GluSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValAlaAlaIleAsn 39
DB   |||
QY 145 CCCAATGTCAGAGATGAACACTCATTCAACAATAAAGGACATGTCAGCCAGGCA 204
DB   |||
QY 40 ProSerValProGluAspGluArgLeuLeuProSerIleLeuGluMetValThrGlnAla 59
DB   |||
QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTG 264
DB   |||
QY 60 SerThrTyrLeuPheGluAlaSerGlnGlyArgValTyrPheArgAsnIleSerIleLeu 79
DB   |||
QY 265 ATTCCTGAAACATGGAAGCAAGGCTGACTATGTGACACCAAACTTGAGACCTACAAA 324
DB   |||
QY 80 ValProMetThrTyrLysSerLysSerGluTyrLeuMetProLysArgGluSerTyrAsp 99
DB   |||
QY 325 AATGCTGATCTGCTGCTGCTACTCTCCAGGTATGATGCAACCCCTACACTGAG 384
DB   |||
QY 100 LysAlaAspValIleValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeu 119
DB   |||
QY 385 CAGATGGGCACTGTGGAGAGAGGTAAGGATCCACCTCACCTCTGATTTCAATTGCA 444
DB   |||
QY 120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139
DB   |||
QY 445 GGAAAAAGTTAGCTGAATATGACACCAAGTAGGCAATTTGTCATGAGTGGGCTCAT 504
DB   |||
QY 140 ThrAspAsnLeuArgIleTyrGlyProArgGlyArgValPheValHisGlnTyrAlaHis 159
DB   |||
QY 505 CTACATGGGGATTTTACAGCTACATATGATGAGAAATTTCTACTTATCC---AAT 561
DB   |||
QY 160 LeuArgTyrGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSerArgLys 179
DB   |||
QY 562 GGAAGAAATACAGCAGTAGTAAAGTGTTCAGCAGGTATTACTGTGACAAATGTAGTAAAGAG 621
DB   |||
QY 180 AsnThrIleGluAlaThrArgCysSerAlaSerIleThrGlyLysLysValValHisGlu 199
DB   |||
QY 622 TCTCAGGAGGAGCGTGTGTACACCAAAAGATGCACATTCATTAAGTAAACAGACTCTAT 681
DB   |||
QY 200 CysGlnArgGlySerCysValThrArgAlaCysArgAspSerLysThrArgLeuTyr 219
DB   |||
QY 682 GAAAGAGGATGAGTTGTTCTCCAATCCCGCAGCGAGAGAGGCTTCTATATGTTT 741
DB   |||
QY 220 GluProLysCysThrPheIleProAspLysIleGlnThrAlaGlyAlaSerIleMetPhe 239
DB   |||
QY 742 GCACACATGTTGATTCTATAGTTGAATTCGTGACAGAACAAACACCAACAAAGAGCT 801
DB   |||
QY 240 MetGlnAsnLeuAsnSerValValGluPheCysThrGluAsnAsnHisAsnAlaGluAla 259
DB   |||
QY 802 CCNAAACAGCAAAATCAAAAATGCAATCTCCGAGCAGATGGGAAGTATCCGTATCT 861
DB   |||
QY 260 ProAsnLeuGlnAsnLysMetCysAsnArgArgSerThrTyrAspValIleLysThrSer 279
DB   |||
QY 862 GAGGACTTTAAGAAAAACCACTCTCTATG-----ACAAACAGCCACCAATCCACCTTC 915
DB   |||
QY 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299
DB   |||
QY 916 TCATTGCTGAGATTGCAACAAAGAAATTTGTTAGTCTCTGACAAATCTGGAACATG 975
DB   |||
QY 300 TyrLeuLeuLysSerArgArgValValCysLeuValLeuAspLysSerGlySerMet 319
DB   |||
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QY 976 GCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTCGACAGCA 1035
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QY 320 AspLysGluAspArgLeuIleArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339
DB   |||
QY 1036 GTTGAGCTGGGGTCTCGGTGGATGGTACATTTGACAGTGTGCTGCCCATGTACAAGT 1095
DB   |||
QY 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359
DB   |||
QY 1096 GAACTCATACAGATAAAGCAGTGGCAGTGACAGGACACACTCCGCAAAAGATTACCTGCA 1155
DB   |||
QY 360 TyrLeuIleLysIleThrSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379
DB   |||
QY 1156 GCAGCTTCAGAGGAGCTCCATCTGAGCGGGTTCGATCGCATCTTACTGTGATTAGG 1215
DB   |||
QY 380 GlnAlaSerGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399
DB   |||
QY 1216 AAGAAA---TATCAACTGTGATCTGAAATTTGTGCTGTGACGGATGGGAGAGACAAC 1272
DB   |||
QY 400 SerSerAspGlnSerThrSerGlySerGluIleValLeuLeuThrAspGlyGluAspAsn 419
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QY 1273 ACTATAGTGGGTCTTTAAGCAGGTCAAAACAAAGTGTGTCATCATCCACACAGTCCCT 1332
DB   |||
QY 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleIleHisThrIleAla 439
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QY 440 LeuGlyProSerArgAlaArgGluLeuGluThrLeuSerAspMetThrGlyGlyLeuArg 459
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QY 1393 ACATATGCTTCAGATCAAGTTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTCA 1452
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DB   |||
QY 478 SerThrSerGlySerValSerGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497
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QY 518 PhePheValIleThrTyrMetValLysLysProGluIleIleLeuGlnAspProLysGly 537
DB   |||
QY 1633 CAGAAAG-----CAAGTGGCTTTGTAGTGACAAA---AACACCAAAATGSCCTACCTC 1683
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QY 538 LysLysTyrThrThrSerAspPheGlnAspLysLeuAsnIleArgSerAlaArgLeu 557
DB   |||
QY 1684 CAAATCCAGGCAATTAAGTTCGCACTTGGAAATACAGTCTGCAAGCAAGC---TCA 1740
DB   |||
QY 558 GlnIleProGlyThrAlaGluThrGlyThrTyrThrTyrSerThrGlyThrLysSer 577
DB   |||
QY 1741 CAAACCTTGACCTGACGTGACGTCCCGTGGCTCAATGTACCTGCTGCTCAATTACA 1800
DB   |||
QY 578 GlnLeuIleThrMetThrValThrThrArgAlaArgSerProThrMetGluProLeuLeu 597
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QY 1801 GTGACTTCCAAACGACAGGACACACGCAATTCGCCAGCCCTCTGGTAGTTTATGCA 1860
DB   |||
QY 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617
DB   |||
QY 1861 AATATTCGCAAGGAGCCTTCCCAATTTCTCAGGGCCAGTGTCCACAGCCCTGATTGAATCA 1920
DB   |||
QY 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637
DB   |||
QY 1921 GTGAATGGAAAAACAGTTTACCTTGAACTACTGGAATAATGGAGCAGGTCTGCTGCTACT 1980
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QY 638 GluHisGlyHisGlnValThrLeuGluLeuTyrAspAsnGlyAlaGlyAlaAspIleVal 657
DB   |||
QY 1981 AAGGATGAGCGTCTCTACTCAAGGTATTTTCAACACTTATGACACCAAGTATGATACAGT 2040
DB   |||
QY 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677
DB   |||
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QY 2041 GTAAAGTGGGGCTCTGGAGAGGTTAAAGCGACGAGAGTG-----ATA 2091  
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 678 LeuLysValArg-----ValGlnAlaGluArgAsnLysThrArgLeuSerLeu 693  
 QY 2092 CCCACGAGTGGACACATGTATACCTCGCTGGATTGAGAAATGAAATACAAATGG 2151  
 Db :|||||  
 694 ArgGlnLysAsnLysSerLeuTyrIleProGlyTyrValGluAsnGlyLysIleValLeu 713  
 QY 2152 AATCCACCAAGACCTGAAATTAATAAGGATGATTTCAACACAAAGCAAGTGTTTCAGC 2211  
 Db :|||||  
 714 AsnProProArgProAspValGlnGluAlaIleGluAlaThrValGluAspPheAsn 733  
 QY 2212 AGAACATCTCGGAGCGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCCCATCTGAT 2271  
 Db :|||||  
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 QY 2272 -----CTCTCCACCTGCGCCAAATCACCACCTGAAGCGGAAATTCAC 2316  
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RESULT 15  
 US-10-055-412B-34  
 ; Sequence 34, Application US/10055412B  
 ; Patent No. 6692939  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0058  
 ; CURRENT APPLICATION NUMBER: US/10/055,412B  
 ; CURRENT FILING DATE: 2001-10-29  
 ; PRIOR APPLICATION NUMBER: US/09/193,562  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 34  
 ; LENGTH: 902  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-10-055-412B-34

Alignment Scores:  
 Pred. No.: 1.65e-193 Length: 902  
 Score: 2324.50 Matches: 479

Percent Similarity: 67.90% Conservative: 143  
 Best Local Similarity: 52.29% Mismatches: 257  
 Query Match: 45.76% Indels: 37  
 DB: 4 Gaps: 15  
 US-09-049-696-18 (1-2813) x US-10-055-412B-34 (1-902)

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 20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValIleAlaIleAsn 39  
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 QY 445 GCAAAAAAGTTAGCTGATATATGGACCAAGATAGGCAATTTGTCATGAGTGGCTCAT 504  
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 QY 802 CCAACCAAGCAAAATCAAAATCAATCTCCGAGACATGGGAGTGTGCTGATCTCT 861  
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 260 ProAsnLeuGlnAsnLysMetCysAsnArgArgSerThrTrpAspValIleLysThrSer 279  
 QY 862 GAGGACTTTAAGAAAACCACTCTCTATG-----ACAACACAGCCACCAATCCACCTTC 915  
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 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299  
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Db 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359  
Qy 1096 GAATCATACAGATAAACAGTGGCGAGTACAGGGGACACACTGCCCAAGATTAACCTGCA 1155  
Db 360 TyrLeuIleLysIleThrSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379  
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Db 400 SerSerAspGlnSerThrSerGlySerGluIleValLeuLeuThrAspGlyGluAspAsn 419  
Qy 1273 ACTATAAGTGGTGGCTTTAAACAGAGTCAACAAAGTGGTGGCATCATCCACACAGCTCGCT 1332  
Db 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleIleHisThrIleAla 439  
Qy 1333 TTGGGGCCCTCGCAGCTCAAGAACTAGAGGAGCTGCCAAATGACAGAGGTTTACAG 1392  
Db 440 LeuGlyProSerArgAlaArgGluLeuGluThrLeuSerAspMetThrGlyGlyLeuArg 459  
Qy 1393 ACATATGCTTCAGATCAAGTTCAGAACAAATGCGCTCATGATGCTTTGGGGCCCTTCA 1452  
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Qy 1513 CAGAACAGCCAGTGGATGAATGGCAGCAGTGATCGTGACAGACACCGCTGGGAAAGACACT 1572  
Db 498 ArgAlaGlyAlaAlrIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517  
Qy 1573 TTGTTTCTTATCACCTGGCAACGACGCTCCCAATCTCTCTGGGATCCCATGGA 1632  
Db 518 PhePheValIleThrTrpMetValLysLysProGluIleIleLeuGlnAspProLysGly 537  
Qy 1633 CAGAAG-----CAAGTGGCTTTAGTGGACAAA---AACACCAAAATGGCTACCTC 1683  
Db 538 LysLysTyrThrThrSerAspPheGlnAspAspLysLeuAsnIleArgSerAlaArgLeu 557  
Qy 1684 CAAATCCAGGACTTCTAAGGTGGCACTTGGAATACAGTCTGCAAGCAAGC---TCA 1740  
Db 558 GlnIleProGlyThrAlaGluThrGlyThrTrpThrTyrSerTyrThrGlyThrLysSer 577  
Qy 1741 CAAACCTTGACCTGATGTCAGTCCGCTGCTCCAAATGCTACCTGCTCCCAATACA 1800  
Db 578 GlnLeuIleThrMetThrValThrArgAlaArgSerProThrMetGluProLeuLeu 597  
Qy 1801 GTCACTTCCAAACGAAGACAGCACAGCAAAATCCCGAGCCCTCTGGTAGTTATGCA 1860  
Db 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617  
Qy 1861 AATATTCCGACAGGAGCTCCCAATCTCAGGGCCAGTGTCAAGCCCTGTGATTGAATCA 1920  
Db 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637  
Qy 1921 GTGAATGGAAAAACAGTTACTTGGAACTACTCGATATGAGGAGGTGCTGATGCTACT 1980  
Db 638 GluHisGlyHisGlnValThrLeuGluLeuThrProAspAsnGlyAlaGlyAlaAspIleVal 657  
Qy 1981 AAGGATCAGCGTCTCTCAAGTATTTCCAACTTATCAGCAAGTGTAGATACAGT 2040  
Db 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677  
Qy 2041 GTAAAGTGGCGGCTCTGGGAGGAGTTAAAGCCAGCCAGAGGAGAGTG-----ATA 2091  
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Qy 2092 CCCAGCAGAGTGGAGCAGCTGTACATACCTCGCTGGATTGAGAATGATGAATCAATAGG 2151  
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Qy 2152 AATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTCAGC 2211  
Db 714 AsnProProArgProAspValGlnGluAlaIleGluAlaThrValGluAspPheAsn 733  
Qy 2212 AGACATCCTCGGAGGCTCATTTGTGGCTTCTGATGTGCCAATGCTCCCATACCTGAT 2271  
Db 734 ArgValThrSerGlyGlySerPheThrValSerGlyAlaPro-----ProAsp 749  
Qy 2272 -----CTCTCCCACTCGCCAAATCACCGACTCGAAGCGGAAATTCAC 2316  
Db 750 GlyAspHisAlaArgValPheProProSerLysValThrAspLeuGluAlaGluPheIle 769  
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Db 809 AsnAlaThrLeuValAsnAlaSerSerLeuIleProLysGluAlaGlySerLysGluAla 828  
Qy 2497 TTTTGTGTTTAAACCAAGAAACATTTACTTTTGAAATGGCACAGATCTTTTTCATT 2556  
Db 829 PheLysPheLysProGluThrPheLysIleAlaAsnGlyIleGlnLeuTyrIleAlaIle 848  
Qy 2557 CAGGCTGTTGATAAGTGCATCTGAAATCAGAAATATCCAACTTCACAGTGCAGGATCTTTG 2616  
Db 849 GlnAlaAspAsnGluAlaSerLeuThrSerGluValSerAsnIleAla----- 864  
Qy 2617 TTTATTCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAAACACGCTCTCTCTCT 2676  
Db 865 -----GlnAlaValLysLeuThrSerLeuGluAspSerIleSerAlaLeuGly 880  
Qy 2677 CCTAATATTTCAT---ATCAACAGCAGCCACTCTCTGGCATTCACATTTTA 2721  
Db 881 AspAspIleSerAlaIleSerMetThrIleTrpGlyLeuThrValIle 896

Search completed: October 15, 2004, 16:19:02  
Job time : 160.308 secs



Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 94.53% Indels: 0  
DB: 9 Gaps: 0  
US-09-049-696-18 (1-2813) x US-09-764-868-635 (1-925)

QY	1	GAATACAGAGGAGATGTACAGCAATAGGGCCATTAAAGTTCGTGTTCACTCTTGATT	60
Db	4	GlulThrGlyArgCysThrAlaMetGlyProPheLysSerValPheIleuLeu	23
QY	61	CTTCACCTTCAGAGGGCCCTGAGTAATCACTCACTTCACTGAAACAAATGGCTAT	120
Db	24	LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr	43
QY	121	GAAGGCATTGCTGTCATCGAATGCCCAATGTGCCAGAGATGAAACACTCAATCAACA	180
Db	44	GlulGlyIleValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGln	63
QY	181	ATAAGGACATGGTACCCAGCATCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	64	IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe	83
QY	241	TATTTCAAATGTTGCCATTTTCTGCTGAAATGGAACAGACAAAGGCTGACTATGT	300
Db	84	TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal	103
QY	301	AGACAAACCTTGACACCTTACAAAATGCTGATGTTCTGGTGTGAGTCTACTCTCCA	360
Db	104	ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrPro	123
QY	361	GCTAATGATGACCTTACACTGACGAGATGGCACTGGAGAGAGGGTCAAGGATC	420
Db	124	GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArg	143
QY	421	CACCTCACCTGATTTCTGAGGAAAGTGTAGCTGAATATATGACCAACAGGTAGG	480
Db	144	HisLeuThrProAspPheIleAlaGlyLysLeuAlaGluTyrGlyProGlnGlyArg	163
QY	481	GCATTTGCTCCATGAGTGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT	540
Db	164	AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrAsnAsnAsp	183
QY	541	GAGAAATCTCTATCCATCGAAGATACAGCAGTAAAGTGTTCACGAGTATTACT	600
Db	184	GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr	203
QY	601	GGTACAAATGTAGTAAAGTGTCTAGGGAGGAGCTGTTACACCAAAAGATGCACATC	660
Db	204	GlyThrAsnValValLysLysCysGlnGlySerCysTyrThrLysArgCysThrPhe	223
QY	661	AATAAGTAAAGGACTATATGAAAAGGATGTGTTGTTCTCCAAATCCCGCCAGAG	720
Db	224	AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr	243
QY	721	GAGAGGCTCTATATGTTGTCACACATGTTGATTCTATAGTTCAATTTCTCTACAGAA	780
Db	244	GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	263
QY	781	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATCAATCTCCGAAGCAC	840
Db	264	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	283
QY	841	TGGAGAGTGCATGATCTGAGGACTTTAAGAAACCACTCTCTATGACAAACAGCCCA	900
Db	284	TrpGluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro	303
QY	901	CCAAATCCCACTCTCATGCTGCAGATTGGCAAGAAATGTTGTGTTTAGTCCCTTGAC	960
Db	304	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	323
QY	961	AAATCTGGAAGCATGGCATGTGTAAACCGCTCAATCGATCAATCAAGCAGCCAGCTT	1020
Db	324	LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu	343

QY	1021	TTCTCTGTCAGACAGATTGAGCTGGGTCTGGGTGGATGGTGACATTTGACAGTGCT	1080
Db	344	PheLeuLeuGlnThrValGluLeuGlySerTrpValGlyMetValThrPheAspSerAla	363
QY	1081	GCCCATGTACAAAGTGAACCTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1140
Db	364	AlaHisValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla	383
QY	1141	AAAAGATTACCTGACGAGCAGCTTCAGAGGAGCGTCCATCTGCAGCGGCTTCGATCGCA	1200
Db	384	LysArgLeuProAlaAlaAspGlyGlyThrSerIleCysSerGlyLeuArgSerAla	403
QY	1201	TTTACTGTGATTAGCAAGAAATATCCAATCATGATCTGAAATGTGCTGTCGCGGAT	1260
Db	404	PheThrValIleArgLysTyrProThrAspGlySerGluIleValLeuLeuThrAsp	423
QY	1261	GGGGAAGACACACTATAAGTGGTGTAAACGAGGTCAACAAAGTGGTCCCATCATC	1320
Db	424	GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle	443
QY	1321	CACAGTGGCTTTGGGCGCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA	1380
Db	444	HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluGluLeuSerLysMetThr	463
QY	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAATGGCTCATTTGATGTTT	1440
Db	464	GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	483
QY	1441	GGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	484	GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys	503
QY	1501	GGATTAAACCTCCAGAACAGCCAGCTGGATGATGTCACAGTATGTCGACAGCACCGTG	1560
Db	504	GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal	523
QY	1561	GGAAAGGACACTTTGTTCTTATCACCTGGCAACGACGCTCCCAATCTCTCTCTGG	1620
Db	524	GlyLysAspThrLeuPheLeuIleThrTrpThrGlnProProGlnIleLeuLeuTrp	543
QY	1621	GATCCAGTGGACAGCAAGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC	1680
Db	544	AspProSerGlyGlnLysGlnGlyGlyPheValValAspLysAsnThrLysMetAlaTyr	563
QY	1681	CTCCAAATCCAGGCACTTCTAAGTTGACACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
Db	564	LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	583
QY	1741	CAAACTTCACTGACTGCTACGCTCCGCTGCTCAATGCTACCTGCTCCCAATTACA	1800
Db	584	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr	603
QY	1801	GTGACTTCCAAACGACCAAGACACCAAGCAATTCAGGCGCTCTGGTAGTTTATGCA	1860
Db	604	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	623
QY	1861	AATATTCGCAAGGACCTCCCAATTTCTCAGGCGCAGTGTACACGCCCTGATTGAATCA	1920
Db	624	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	643
QY	1921	GTCAATGGAAAACAGTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATCTACT	1980
Db	644	ValAsnGlyIleThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	663
QY	1981	AAGGATGAGGCTGCTACTCAAGTATTTTCAACATTTATGACACGATGGTACATACAGT	2040
Db	664	LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	683
QY	2041	GTAAAAGTGGGCTCTGGGAGGAGTTAACGACGACGACGAGAGTGTATACCCAGCAG	2100
Db	684	ValLysValArgAlaLeuGlyValAsnAlaAlaArgArgValIleProGlnGln	703

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QY 2101 AGTGGACACTGTATACATACCTGGCTGGATTGAGAAATGATGAATAACAAATGAAATCCACCA 2160
Db 704 SerGlyAlaLeuTyrIleProGlyTriPheGluAsnAspGluIleGlnTrpAsnProPro 723
QY 2161 AGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCACGAGAACATCC 2220
Db 724 ArgProGluIleAsnLysAspAspValGlnHisGlyGlnValCysPheSerArgThrSer 743
QY 2221 TCGGGAGGCTCATTTGTGGCTCTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTCCCA 2280
Db 744 SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro 763
QY 2281 CTGGGCCAAATCCCGACCTGAAGGGGAAATTCACGGGGCAGTCTCTCAATATCTGACT 2340
Db 764 ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGlySerLeuIleAsnLeuThr 783
QY 2341 TGACAGCTCTCGGGATGATTATGACCATGGACAGCTCACAAAGTATATCATTCGAATA 2400
Db 784 TrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIle 803
QY 2401 AGTACAAGTATCTTCTGATCTCAGACACAGCTTCAATGAATCTCTTCAAGTGAATCTACT 2460
Db 804 SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr 823
QY 2461 GCTCTCATCCCAAGGAGCCAACTCTGAGAAAGTCTTTTGTGTTTAAACCCAGAAAACAT 2520
Db 824 AlaLeuIleProLysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIle 843
QY 2521 ACTTTTGAAATGGCACACATCTTTTCATGCTTATTCAGGCTGTTGATAGTTCGATCTG 2580
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QY 2581 AAATCAGAAATATCAACATTCACAGATATCTTCTGTTTATTCCTCCACAGACTCCGCCA 2640
Db 864 LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProProGlnThrProPro 883
QY 2641 GAGACACTAGTCTGTGATGAACGCTGCTCTCTTCTTAATATTCATATCAACAGCAC 2700
Db 884 GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr 903
QY 2701 ATTCCTGCGATTCACATTTTAAATATGTTGGAAGTGGATAGGAGAACTGAGCTGCA 2760
Db 904 IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer 923
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Db 924 IleAla 925

RESULT 2
US-10-106-698-6248
; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6248
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-6248
Alignment Scores:

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Pred. No.: 0 Length: 925
Score: 4802.00 Matches: 922
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 94.53% Indels: 0
DB: 14 Caps: 0

US-09-049-696-18 (1-2813) x US-10-106-698-6248 (1-925)

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QY 61 CTTCACTCTCTAGAAAGGGGCCCTGAGTAATCACTCATTCACTGAGCTGAGCAACAATGGCTAT 120
Db 24 LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr 43
QY 121 GAAGGCATGTCTGTCGAATCGACCCCAATGCGCAGAGATGCGCAGAGATGAAACACTCATCAACA 180
Db 44 GluGlyIleValValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGln 63
QY 181 ATAAGGACATGCTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGCAAGCGCATTT 240
Db 64 IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe 83
QY 241 TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAGGCTGACTATGTG 300
Db 84 TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal 103
QY 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTCTGTTGCTGCTGAGTCTACTCTCCA 360
Db 104 ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro 123
QY 361 GGTAAATGATGAACCTTACACTCAGCAGATGGGCAACTGTGGAGAGAGGCTGAAGGATC 420
Db 124 GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle 143
QY 421 CACCTCACTCTCTGATTTCAATGACAGAAAAGTTAGCTGAATATGGACCAAGTAGG 480
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QY 541 GAGAAATCTACTTATCCAATGGAAAGATACAGCAGTAAAGATGTTACAGCGGTATTACT 600
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QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGCGAGCTGTACACCAAAAGATGCACATTC 660
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QY 661 AATAAAGTAAACAGACACTTATGAAAAGGATGCTGAGTTGTTCTCCATATCCGCCAGACG 720
Db 224 AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr 243
QY 721 GAGAAGGCTTCTATAATGTTTGCACAACTTCTGATCTATAGTTGATTTCTGTACAGAA 780
Db 244 GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu 263
QY 781 CAAACCAACAAAGAGTCTCCAAACAAAGCAAAATCAAAATCAAAATCTCCGAGACACA 840
Db 264 GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr 283
QY 841 TGGGAGTGTGCTGATCTGAGGACTTTAAGAAACCACTCTCTATGACAAACACAGCCA 900
Db 284 TrpGluValIleArgAspSerGluAspPheLysLysThrThrProMetThrThrGlnPro 303
QY 901 CCAAAATCCCACTTCTCATTTGCTGCAGATGGCAAGAAATTTGCTGTTTAGTCTTGCAC 960
Db 304 ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp 323

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; SOFTWARE: PERL Program

; SEQ ID NO 8

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc\_feature

; OTHER INFORMATION: incyte ID No. US20010025098A1 1737775

US-09-823-356-8

Alignment Scores:

Pred. No.: 0

Score: 4759.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 93.68%

DB: 9

Length: 914

Matches: 914

Conservative: 0

Mismatch: 0

Indels: 0

Gaps: 0

US-09-049-696-18 (1-2813) x US-09-823-356-8 (1-914)

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 DB 1 MetGlyProPheLysSerValPheLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 20  
 QY 85 AGTAATTCTACTTTCAGCTGAAACAATGGCTATCAAGGCATTGCTGCAATCGAC 144  
 DB 21 SerAsnSerLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 40  
 QY 145 CCCAATGTGCCAAGATGAACACATTCATCAACAATAAAGACATGTGACCCAGGCA 204  
 DB 41 ProAsnValProGluAspGluThrLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 60  
 QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGCGATTATTTTCAAAAATGTTGCCATTTTG 264  
 DB 61 SerLeuTyLeuPheGluAlaThrGlyLysArgPheTyPheLysAsnValAlaLeu 80  
 QY 265 ATTCTGTAACATGGAACAAGGCTGATGTGAGACCAAACTTGAGACCTACAAA 324  
 DB 81 IleProGluThrTrpLysThrLysAlaAspTyValArgProLysLeuGluThrTyLys 100  
 QY 325 AATGCTGATGTTCTGTGCTGAGTACTCTCTCCAGGTAAATGATGAACCCCTACACTGAG 384  
 DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyThrGlu 120  
 QY 385 CAGATGGCAACTGTGGAGAGAGGCTGAAAGATCCACCTCACCTCCCTGATTTCATGCA 444  
 DB 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
 QY 445 GGAAAAAGTTAGCTGAATATGGACCAACAGTAGCGCATTTGTCCATGAGTGGCTCAT 504  
 DB 141 GlyLysLysLeuAlaGluTyGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
 QY 505 CTACCATGGGAGTATTGACGAGTACAAATATGATGAGAAATCTTACTATPCCAAATGGA 564  
 DB 161 LeuArgTrpGlyValPheAspGluTyArgAsnAspGluLysPheTyLeuSerAsnGly 180  
 QY 565 AGAATACAGCAGTAAGATGTTTCAGCAGGTATTACTGCTACAAATGTAGTAAGAAGTGT 624  
 DB 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysCys 200  
 QY 625 CAGGAGGCAGCTGTTACACAAAGATGCATTCATTAAGTAACAGGACTCTATGAA 684  
 DB 201 GlnGlyGlySerCysTyThrLysArgCysThrPheAsnLysValThrGlyLeuTyGlu 220  
 QY 685 AAAGATGTGATTTGTTCTCCAAATCCCGCAGAGGAGAGGCTTCTATATATGTTGCA 744  
 DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
 QY 745 CAACATGTGTATCTATAGTTGAATTTCTGTACAGACAAACCAACCAACAGAGCTCCA 804  
 DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
 QY 805 AACAGCAAAATCAAAAATGCAATCTCCGAGACATGGGAGATGATCCGTGATTTCTGAG 864

DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
 QY 865 GACTTTAAGAAAACCACTCTATGACAAACAGCCACCAATCCACCTTCTCATTTGCTG 924  
 DB 281 AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300  
 QY 925 CAGATTGGACAAAGAAATTGTGTGTCTTGTAGTCTCTGACAAATCTGGAAGCATGGGACTGGT 984  
 DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
 QY 985 AACCGCTCAATGACTGAATCAAGCAGGCCAGCTTTCTCTGTCGACAGATTGAGCTG 1044  
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 QY 1045 GGCTCTCTGGGTTGGGATGGTGACATTTGACAGTCTGCCCATCTACAAAGTGAACACTATA 1104  
 DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
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 QY 1165 GGAGGACAGCTCCATCTGCAGCGGCTTCGATCGGCAATTTACTGTGATTAGAAATAAT 1224  
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 DB 421 CysPheAsnGlnValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
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 DB 521 ThrTrpThrThrGlnProGlnIleLeuLeuThrAspProSerGlyGlnLysGlnGly 540  
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 DB 561 ValGlyThrTrpLysTyThrLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
 QY 1765 TCCGTCGCTCCCAATGTACCTGCCCTCCCAATTACAGTACCTTCCAAAACGACAAAGGAC 1824  
 DB 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
 QY 1825 ACCGCAAAATCCCCAGCCCTCTGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCCA 1884  
 DB 601 ThrSerLysPheProSerProLeuValValTyAlaAsnIleArgGlnGlyAlaSerPro 620  
 QY 1885 ATTCTCAGGCCAGTGTACAGCCCTGATTTGAATTCAGTGAATGGAATAACAGATTACCTTG 1944

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Db      621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlySerThrValThrLeu 640
QY      1945 GAATCTACTGGATAATGGACGAGTGCTGATGCTACTAAGGATGACGGTGTCTTACTCAAGG 2004
Db      641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValSerArg 660
QY      2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTCCGGCTCTGGAGGA 2064
Db      661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY      2065 GTTACGACGACGACGAGAGTGTATCCCGACGAGTGGAGACTGTACATCTGGC 2124
Db      681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY      2125 TCGATTGAGAATGATGAATAACAATCGAATCCACCAAGACCTGAAATTAATGAAGATGAT 2184
Db      701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY      2185 GTTCAACACAAAGAGTGTGTTTCAGCAGAACATCTCTGGAGGCTCATTTCTGGCTTCT 2244
Db      721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY      2245 GATGTCCCAAAATGCTCCCATCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG 2304
Db      741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760
QY      2305 CGGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGACACAGCTCTCTGGGATGATTAT 2364
Db      761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY      2365 GACCATGGAACAGCTCACAAATATATCATTCGAATAGTACAGTATTCTTGATCTCAGA 2424
Db      781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY      2425 GACAAGTTCAATGAATCTCTCAAGTGAATGACTGCTCTCATCCCAAGGAGCAAC 2484
Db      801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY      2485 TCTGAGGAAGTCTTTTGTAAACAGAAACATTACTTTTCAAAATGGCAAGATCTT 2544
Db      821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY      2545 TTCATTGCTATTACGGCTGTGTAGTAGTGCATCTGAATCAGAAATATCCACATTGCA 2604
Db      841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860
QY      2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACG 2664
Db      861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880
QY      2665 TCTGCTCTTGTCTCTAATATTCATATCAACAGACACCATCTCTGGCATTCATTTAAAA 2724
Db      881 SerAlaProCysProAsnIleHisLeAsnSerThrIleProGlyIleHisLeuLys 900
QY      2725 ATTATGTGGAGTGGATGAGAGACTGCAGCTGTCAATAGCC 2766
Db      901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

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## RESULT 4

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US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

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Alignment Scores:
Pred. No.: 0
Score: 4759.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 93.68%
DB: 9
Length: 914
Matches: 914
Conservative: 0
Mismatches: 0
Indels: 0
Gaps: 0

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US-09-049-696-18 (1-2813) x US-09-981-353-192 (1-914)

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QY      25 ATGGGGCCATTTAAGAGTCTGTGTTCATCTTTGATCTTCCACCTCTAGAACGGGCCCTG 84
Db      1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY      85 AGTAATTCACCTCATTACGCTGAACAACATGCTATGAAGGCAATGTCTGCTTCAATCGAC 144
Db      21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY      145 CCCAATGTGCCAGAAGATGAAACACTCATTCAACAAATAAAGACATGTGTGCCAGGCA 204
Db      41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY      205 TCTCTGTATCTGTTGAAGTACAGAAAGCCGATTTTCAAAAATGTTGCCATTG 264
Db      61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY      265 ATTCTCAACACATGGAGCAAGGCTGACTATGTGAGACCAAACTGAGACCTACAAA 324
Db      81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY      325 AATGCTGATGTTCTGCTGCTGCTGCTCTCTCTCCAGGTAAATGATGAACCTACATGAG 384
Db      101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY      385 CAGATCGGCAACTGTGGAGAGAGGCTGAAGATCCACCTCACTCTGATTTTCAATGCA 444
Db      121 GlnMetGlyAsnGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 140
QY      445 GGAAGAAAGCTAGCTCAATATGACCAAGGTAGGCGCATTTGTCATGATGAGTGGCTCAT 504
Db      141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTyrPheAlaHis 160
QY      505 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATCTTACTTATCCATGGA 564
Db      161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY      565 AGAATACACAGCAGTATGATTTTCTGAGGATTTTCTGAGGATTTTCTGAGGATTTTCTGAG 624
Db      181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY      625 CAGGAGCGACGCTTTACACCAAGATGCACATTCAATAAGTAACAGACCTCATGAA 684
Db      201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY      685 AAAGGATGTGAGTTTGTCTTCTCAATCCCGCCAGACGAGAGAGGCTTCTATATGTTTGGCA 744
Db      221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY      745 CAACATGTTGATTTCTATAGTTGATTTCTGTACAGAACCAACCAACCAACCAACCAACCA 804
Db      241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY      805 AACAGCAAAATCAAAATCAATCTCCGAGACGACATGGGAGGTGATCCGCTGATTTCTGAG 864
Db      261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280

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QY	865	GAC	TTTAAGAAAA	CCACTCCTATGACAACACAGGCACC	AATAATCGCACCTTTCATTGCTG	924
Db	281	Asp	PheLysLysThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu		300	
QY	925	CAG	ATTGGACAAAGAATGTGTGTACTCTCTGACAAATCTGGNAAGCATGCCGACTGGT	984		
Db	301	Gln	IleGlyGlnArgIleValCysLeuValLeuaspySerGlySerMetAlaThrGly	320		
QY	985	AAC	CGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCCCTGCTGCACACAGTTTGAGCTG	1044		
Db	321	Asn	ArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340		
QY	1045	GGT	CTCTGGTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAAC	1104		
Db	341	Gly	SerTrpValGlyMetValThrPheAspSerAlaLaHisValGlnSerGluLeuIle	360		
QY	1105	CAG	ATAAACAGCTGGCAGTGACAGGACACACTCCGCCAAAAGATTACCTGCAGCAGCTTCA	1164		
Db	361	Gln	IleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380		
QY	1165	GGG	GAGCGTCCATCTGCAGCGGGCTTCGATCGGCATTACTGTGATTAGGAAGAAATAT	1224		
Db	381	Gly	GlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTy	400		
QY	1225	CCA	CTGATGATCGAATTTGCTGTCTGACGAGTGGGGAAGACAACACTATAAGTGGG	1284		
Db	401	Pro	ThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420		
QY	1285	TGC	TTTAACGAGGTCMAACAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCT	1344		
Db	421	Cys	PheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440		
QY	1345	GC	ACTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA	1404		
Db	441	Ala	AlaGlnLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSer	460		
QY	1405	GAT	CAAGHTTCAGACAATGGCGCTCATTTGATGCTTTTGGGGCCCTTCATCAGGAATCGA	1464		
Db	461	Asp	GlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480		
QY	1465	GCT	CTCTCAGCGCTCCACCAGCTTGAGTAGTAAGGATTAACTCCAGAACAGCCAG	1524		
Db	481	Ala	ValSerGlnArgSerIleGlnLeuGlySerLysGlyLeuThrLeuGlnAsnSerGln	500		
QY	1525	TGG	ATGAATGGCAGCTGATCGTGGCAGACACCGCTGGGAAAGGACATTGTTTCTTATC	1584		
Db	501	Trp	MetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520		
QY	1585	ACT	TGGACAACGCGCTCCCAAATCCTTCTCTGGATCCCAGTGACAGAAAGCAAGT	1644		
Db	521	Thr	TrpThrThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540		
QY	1645	GGC	TTCTAGTGGCAAAAACACCAATGGCCTACCTCCAATCCAGGAGTGTCTAAG	1704		
Db	541	Gly	PheValValAspLysAsnThrLysMetAlaTy	560		
QY	1705	GTT	GGCACTTGGAAATACAGTCTCCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA	1764		
Db	561	Val	GlyThrTrpLysTy	580		
QY	1765	TCC	CGTGGTCCAAATGTACCTGCCCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGG	1824		
Db	581	Ser	ArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp	600		
QY	1825	ACC	AGAAATCCCCAGCCCTCTGGTAGTTTATGCAAAATTTGCCAAGGAGCGCTCCCA	1884		
Db	601	Thr	SerLysPheProSerProLeuValValTy	620		
QY	1885	ATT	CTCAGGCGCAGTGTACAGCCCTCATTAATCACTGAATCACTGAATGMAAAACAGT	1944		
Db	621	Ile	LeuArgAlaSerValThralaLeuIleGluSerValAsnGlyLysThrValThrLeu	640		
QY	1945	GAA	CTACTGATAATGGAGCAGGTGTGTGCTACTTAAGATACGGTGTCTACTCAAGG	2004		

Db	641	GlulLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg	660
QY	2005	TATTTACAACTTATGACACAAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA	2064
Db	661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
QY	2065	GTTAACGCGACGACAGCGAGAGTGCATACCCAGCAGAGTGGAGACACGTATACATCCCTGGC	2124
Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
QY	2125	TGGATTGGAATGATGAATAACAATGGAATCCCAAGACCTGAAATTAATAAGGATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	2185	GTTCAACACAGCAAGTGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGGGCTTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	2245	GATGTCCCAAAATGCTCCCACTACCTGATCTCTTCCACACTGCGCAAAATCACCGACCTGAAG	2304
Db	741	AspValProAsnAlaProIleProAspIlePheProGlyGlnIleThrAspLeuLys	760
QY	2305	CGGAAATTCACGGGGCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGATGATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
QY	2365	GACCATGGMACAGCTCACAGTATATCATTCGAATAAGTACAGTATCTTGATCTCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSertIleLeuAspLeuArg	800
QY	2425	GACAAAGTTCAATGAATCTCTTCAAGTCAATACTACTCTCTCATCCCAAGGAGCCCAAC	2484
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QY	2545	TTCTATTCCTATTACGGCTGTGTAGTAAGTTCGATCTGAAATCAGAAATATCCACATTCGA	2604
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QY	2605	CGAGTACTCTTGTGTTATTTCTCCACAGACTCCGCCAGAGACCTAGTCTGATGAAACG	2664
Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
QY	2665	TCTGCTCCTTGCTCAATATTCATATCAACAGCACCATCTCTGGCATTCCACATTTTAAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	2725	ATTATGTGGAGTGGATAGAGAACTGCAGCTGCTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914
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; Sequence 2054, Application US/09833245			
; Publication No. US20040010134A1			
; GENERAL INFORMATION:			
; APPLICANT: Human Genome Sciences, Inc.			
; TITLE OF INVENTION: Albumin Fusion Proteins			
; FILE REFERENCE: PF546PCT			
; CURRENT APPLICATION NUMBER: US/09/833,245			
; CURRENT FILING DATE: 2001-04-12			
; PRIOR APPLICATION NUMBER: 60/229, 358			
; PRIOR FILING DATE: 2000-04-12			
; PRIOR APPLICATION NUMBER: 60/256, 931			
; PRIOR FILING DATE: 2000-12-21			
; PRIOR APPLICATION NUMBER: 60/199, 384			
; PRIOR FILING DATE: 2000-04-25			
; NUMBER OF SEQ ID NOS: 2267			
; SOFTWARE: PatentIn Ver. 2.1			

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; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

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  Score:         4759.00  Matches:      914
  Percent Similarity: 100.00%  Conservative: 0
  Best Local Similarity: 100.00%  Mismatches: 0
  Query Match:     93.68%      Indels: 0
  DB:              11          Gaps: 0

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QY 85 AGTAATTCACATTCACGCTGACGACAAACAATGGCTATGAAGCATTCGTGCAATCGAC 144
DB 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCANTGCCAGAGATCAACACTCATTCACAAATAAAGGACATGGTGACCCAGGCA 204
DB 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
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QY 265 ATTCCTGAAACATGGAAGAGCTGACTATGTAGACACAAACTTGAGACCTACAAA 324
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QY 325 AATGCTGATGTTCTGGTCTCAGTCTACTCTCCAGGTAAATGATGAACCTPACACTGAG 384
DB 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGAAGGTTGAAAGGATCCACCTCACTCCTGATTTCATTGCA 444
DB 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
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DB 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTCCAGCAGTACATAATGATGAGAAATCTTACTTATCCCAATGGA 564
DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATAACAAGCAGTAAGATGTTTCAGCAGGTATTACTGGTACAAATGTAAGAAAGTGT 624
DB 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGAGGCGAGCTGTATACACAAAAGATGCACATTCATATAAGTAACAGGACTCTATGAA 684
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QY 685 AAAGGATGTGAGTTGTTCTCCAATCCCGCCAGAGGAGGCTTCTATAATGTTTGA 744
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QY 745 CAACATGTTGATTCTATAGTTGTAATTCCTCTACAGAACAAAACCAACAAAGAGCTCCA 804
DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACACGCAAAATCAAAATGCAATCTCCGAGCAGCATGGGAAGTGTATCCGTATCTGAG 864
DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACTTTAAGAAAACCACTCTATGACAAACACAGCCCAACCAATCCACCTTCTCATTTGCTG 924
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DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACGCGCTCAATCGACTGAATCAAGCAGCGGCGAGCTTTTCTGCTGCACACAGTTGAGCTG 1044
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
QY 1045 GGGTCTCGGTTGGGATGGTGCACATTTGCACAGTGTGCTGCCCATGTACAAAGTGAATCATA 1104
DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAACAGTCGACGTGACAGGACACACTCGCCAAAAGATTACCTGCGACGACCTTCA 1164
DB 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380
QY 1165 GGAGGCGCTCCATCTCGCAGCGGGCTTCGATCGGCATTCTACTGTGATTAGGAAGAAATAT 1224
DB 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400
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DB 441 AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460
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QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCCAG 1524
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QY 1525 TGGATGAATGCACAGTGTGTCGACAGCAGCAGCGTGGGAAAGGACACATTTGTTCTTATC 1584
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QY 1585 ACCTGGCAACAGCAGCCTCCCCAAATCCTTCTCTGGGATCCCGATGGAGCAGAACAGGT 1644
DB 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540
QY 1645 GCTTTGTAGTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGAGCTTCTTAAG 1704
DB 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 1705 GTTGACACTTGAATATACAGTCTGCAAGCAGCTCAAACTCACAACCTTCACCTGACTGTCAG 1764
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580
QY 1765 TCCCGTGGTCTCAATGTACCTCCCTCCAAATTCAGTGCACCTTCCAAAACGAAACAGGAC 1824
DB 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600
QY 1825 ACCAGCAATATCCCGAGCGCTCTGTGTATGCAATATGCAATATTCGCAAGGAGCTCCCA 1884
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlnAlaSerPro 620
QY 1885 ATTCTCAGGCGCAGTGTCTACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACCTTG 1944
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640
QY 1945 GAATCTAGTGAATAATGGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGG 2004
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Db      641  GluLeuLeuAspAsnGlyAlaGlyAlaThrLysAspGlyValTyrSerArg 660
QY      2005  TATTTCAACACTTATGACACGATGGTAGACAGTGTAAGTGGGCTCTGGAGGA 2064
Db      661  TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY      2065  GTTAACGCGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACTGACATACCTGGC 2124
Db      681  ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY      2125  TGGATTGAGATGATGAATAACAATCAATCGAATCCACCAAGACCTGAAATTAATAAGGATGAT 2184
Db      701  TrpIleGluAsnAspGluIleGlnTrpAsnProArgProGluIleAsnLysAspAsp 720
QY      2185  GTTCAACACAGCAAGTGTGTTTCAGACAGACATCTCGGAGGCTCATTTGTGCTTCT 2244
Db      721  ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY      2245  GATGTCCCAAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG 2304
Db      741  AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760
QY      2305  CGGMAATTCAGGGGCGAGTCTCAATTAATCGACTTGGACAGCTCTCGGGGATGATTAT 2364
Db      761  AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY      2365  GACCATGAACAGCTCAACAGTATATCATTCGAATAAGTACAAGTATTCTTGATCTCAGA 2424
Db      781  AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY      2425  GACAAGTTCAATGAATCTCTCAAGTGAATACTACTGCTCTCATCCCAAGGAGGCCAAC 2484
Db      801  AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY      2485  TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTAATTTGAAATAGGCACAGATCTT 2544
Db      821  SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY      2545  TTCATTGCTATTACGGCTGTGTGATAAGTCCATCTGAATCAGAAATATCCAACTTCCA 2604
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QY      2665  TCTGCTCTTCTCTATATATTCATATCAACAGCACCATCTCTGGCATTCACATTTAAAA 2724
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RESULT 6
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICVT012
; CURRENT APPLICATION NUMBER: US/10/235,994
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914

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; TYPE: PRY
; ORGANISM: Human
US-10-235-994-26

Alignment Scores:
Pred. No.: 0
Score: 4759.00
Percent Similarity: 100.00%
Best local Similarity: 100.00%
Query Match: 93.68%
DB: 14
Length: 914
Matches: 914
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-09-049-696-18 (1-2813) x US-10-235-994-26 (1-914)
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Db      21  SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY      145  CCCAATGTCGAGAGATGAAACACTCATTCACAAATAAAGGACATGTCGCCAGCA 204
Db      41  ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY      205  TCTCTGATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAATGTTGCCATTG 264
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QY      265  ATTCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db      81  IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY      325  AATGCTGATGTTCTGTTGCTGACTCTCCAGTAAATGATGACCCCTACACTGAG 384
Db      101  AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120
QY      385  CAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCTCTGATTTCAATGCA 444
Db      121  GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY      445  GGAAGAAGTTAGCTGATATGACACCAAGGTAGGCAATTTGTCATGAGTGGCTCAT 504
Db      141  GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY      505  CTACGATGGGAGTATTGACAGTACAATAATCATGAGAAATCTACTTATCCAAATGGA 564
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QY      565  AGAATACAAGCAGTAAGATGTTACCAAAAGATGACATTCATTAAGTAAGAGAGTGT 624
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QY      625  CAGGAGCGAGCTGTTACCAAAAGATGACATTCATTAAGTAAGAGAGTGT 684
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QY      685  AAAGATGTGAGTTGTTCTCCAAATCCCGCAGAGGAGGCTTCTATAATGTTTGA 744
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QY      745  CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACCAACCAAGAGCTCCA 804
Db      241  GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY      805  AACAGCAAAATCAAAAATCCAATCTCCGAGCAGCATGGGAAGTGTATCCCTGATCTGAG 864
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QY      865  GACTTTAAGAAAACCTCTCTATGACACACGCCCAATCCACCTTCTCATTTGCTG 924
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; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: PZ042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT



; ORGANISM: Homo sapiens  
US-10-060-255-42

### Alignment Scores:

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Score:	4759.00	Matches:	914
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Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	93.68%	Indels:	0
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US-09-049-696-18 (1-2813) x US-10-060-255-42 (1-914)

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QY		
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805	AACAGCCAAATCAAAATTCGAATCTCCGAAGCACATGGGAAGTGATCGGTGATTTCTGAG	864
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261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
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QY	1045	GGGTCTCTGGGTGGGATGGTCACATTTTGACAGTCTGCTCCCATGTACAAAGTGAACACTCATA	1104
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QY	1105	CAGATAAACAGTGGCAGTGCACAGGCACACACTCGCCAAAAGATTACCTGCAGCAGCTTCA	1164
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Db	521	ThrTrpThrThrGlnProProGlnIleLeuLeuThrPaspProSerGlyGlnLysGlnGly	540
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Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCCGTCGCTCCAAATGCTACCTCGCTCCAAATACAGTGACATTCCAAACGACACAGAC	1824
Db	581	SerArgAlaSerAsnAlaThrLeuProProlIleThrValThrSerLysThrAsnLysAsp	600
QY	1825	ACCAGCAAAATCCCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAACGAGGACCTCCCA	1884
Db	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	1885	ATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAACAAACAGTTACCTTG	1944
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QY	1945	GAACACTACTGATAATCGACGAGTGTGATGCTACTTACGATGACGGTGTCTACTCAAGG	2004
Db	641	GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
QY	2005	TATTTTCAACAACCTTATGACACGAATGCTAGATACAGTGTAAAGTCCGGGCTCTGGGAGGA	2064

661	Db	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
2065	QY	GTTAAACGCACCGACGAGGTGATACCCACAGACAGATGGACACTGTACATACCTGGC	2124
681	Db	ValAsnAlaAlaArgArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
2125	QY	TGGATTGAGAAATGATGAATACAAATGGAATCCACCAGACCTGAAATTAATAAGGATGAT	2184
701	Db	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
2185	QY	GTTCAACACAGCAAGGTGTTTCAGACAGAACATCTCTGGGAGGCTCATTTGGGCTTCT	2244
721	Db	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
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741	Db	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
2305	QY	CGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAT	2364
761	Db	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
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801	Db	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
2485	QY	TCTGAGGAGTCTTTTGTGTTTAAACCAGAAACACTACTTTTGAATATGACACAGATCTT	2544
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2605	QY	CGAGTATCTTTGTTTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAACG	2664
861	Db	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
2665	QY	TCTGCTCTCTGCTCTTAATATTCAATCAACAGCACCATTCCTGCGCATTCACATTTAAAA	2724
881	Db	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
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901	Db	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

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US-09-833-263-1066
; Sequence 1066, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1066
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; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
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Score: 4756.00 Matches: 913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.89% Mismatches: 0
Query Match: 93.62% Indels: 0
DB: 9 Gaps: 0

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Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
Qy 2605 CGAGTATCTTTGTTTATTCTCCACAGACTCCGCGCAGAGACACCTAGTCTCATGAAACG 2664  
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
Qy 2665 TCTGCTCTCTGCTCTTAATATTCATATCAACAGCACCATTTCTTGGGATTCACATTTAAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
Qy 2725 ATTATGTGAAGTGAATAGGAACTGACGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914  
RESULT 11  
US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication NO. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595



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; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4754.00 Matches: 913
Percent Similarity: 99.89% Conservative: 0
Best Local Similarity: 99.89% Mismatches: 1
Query Match: 93.58% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-270-595-6 (1-914)

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Db 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20

QY 85 AGTAATTCACCTCATTACGCTCAAGCAACATCGCTATGAGGACATGCTGTTGCAATGCAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGTGCCAAGATGAACACTCATTCAACAAATAAAGGACATGGTGCACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTGTTGAGCTACAGGAAGCGATTATTTCAAAAATGTTGCCATTTTG 264
Db 61 SerLeuTyrIlePheLeuGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCCTCAAAACATGGAAGCAAGAGCTGCTATGAGACCAAACTGAGACCTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspPyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCCTCCAGGTAATGATGAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGGCACTGTGAGAGAGGGTGAAGGATCCACCTCACTCCTGATTTCATTGCA 444
Db 121 GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140

QY 445 GGAATAAAGTTAGCTGAATAGACCAACAGGATAGGCGATTGTCATGAGTGGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160

QY 505 CTACGATGGGAGTATTGTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGGA 564
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Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGAGGCGAGCTGTTACACCAAAAGATGCACATTCAATAAAGTACACGAGCTCTATGAA 684
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys**ThrGlyLeuTyrGlu 220
QY 685 AAAGGATGTGATTTGTTCTCCAAATCCCGCAGAGGAGAGGCTTCTATAATTTGCA 744
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY 745 CAACATGTTGATTCTATAGTTGAAATCTGTGACAGAAACCAACCAACAAAGAGCTCCA 804
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QY 805 AACAGCAAAATCAAAATGCAATCTCCGAAGCATGCGAAGTGCATCCGTGATTCTGAG 864
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QY 865 GACTTTAAGAAAACCACTCTTATGACACACAGCCCAAAATCCCACTTCTCATGCTG 924
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QY 925 CAGATTGGACAAAGAAATTTGTTAGTCTTGTACAAATCTGGAAGCATGCGGACTCGT 984
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QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTTCTGCTGACAGACATTCAGCTG 1044
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Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380
QY 1165 GGAGGACGTCCATCTCAGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224
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Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
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QY 1405 GATCAAGTTCAGAACATGGCCTCATTGATGCTTTGGGGCCCTTTTCATCAGGAATGGA 1464
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480
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QY 1525 TGGATGAATGGCACAGTGTCTGTGAGCAGCACCGTGGGAAAGGACACTTTGTTTCTTATC 1584
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Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
Qy 1705 GTTGGCACTTGAATACAGTCTGCAAGCAGCTCACAACCTTGACCCCTGACTGTCACG 1764  
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Qy 1765 TCCGCTGGTCCCAATGCTACCTGCTCCCAATACAGTGACTTCCAAACCAAGCAAGGAC 1824  
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Qy 1825 ACCAGCAAAATCCCGAGCCCTCTGTAGTTATGCAATATTCGCAAGGAGCCCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlnYalaSerPro 620  
Qy 1885 ATTCTCAGCGCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACCTTG 1944  
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Qy 1945 GAATCTACTGGATAATGGAGCAGCTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
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Qy 2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGAATGAAGTGGGGCTCTGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
Qy 2065 GTTACGAGCAGCAGGAGTGTATACCCAGCAGAGTGGAGCTGTACACTCTGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
Qy 2125 TGGATTGAGATGATGAAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGTATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
Qy 2185 GTTCAACACACAAAGTGTGTTTACGACAGAAATCTCGGAGGCTCATTTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
Qy 2245 GATGTCCTCAAAAGTCTCCATACCTGATCCTCCACCTGGCCAAATCACCGACCTGAAG 2304  
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US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No.: US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055.412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193.562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065.922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 93.56% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-055-412B-28 (1-914)

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Qy 205 TCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAATGTTGCCATTTG 264  
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Qy 265 ATTCCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAA 324  
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Qy 325 AATGCTGATGTTCTGTTCTGCTGCTGCTCTCTCCAGGTAATGATGAACCTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
Qy 385 CAGATGGCAACTGTGGAGAGAGGTTGAAGGATCCACTCACTCTGATTTCAATGCA 444  
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Qy 445 GGAAGAAAGTTAGCTGAATATGACCAAGCTAGGCAATTTGTCATGAGTGGGCTCAT 504  
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Qy 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAAATTTACTTATCAATGGA 564  
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QY	565	AGAAATCAACAGCAGTAAGATGTTTCAGCAGGTATTTACTGGTACAAATGTTAGTAAAGAGTGT	624		541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200		1705	GTTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG	1764
QY	625	CAGGAGGAGCTGTTTACACCAAAAGATGACACATTCATTAAGATACAGGACTCTATGAA	684		561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220		1765	TCCGTGCGCTCAATGCTTACCCCTGCTCCAAATTACAGTCACTTCCAAAACGACAAAGGAC	1824
QY	685	AAAGGATGTGAGTTTCTTCCAAATCCCGCAGCGAGGAAGCTTCTATATGTTTGA	744		581	SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp	600
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240		1825	ACCAGCAATTCGCCAGCCCTCTGCTAGCTTTATGCMAATTTTCGCAAGAGGCTCCCCA	1884
QY	745	CAACATGTTGATTTACTAGTTGAATTTCTGTACAGAACAAAACACAAAGAGCTCCA	804		601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260		1885	ATTCTCAGCGCCAGTGTTCACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACTCTG	1944
QY	805	AACAGCAAAATCAAAAATGCAATCTCCGAGCACATGGGAAGTGATCCGTGATCTGAG	864		621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280		1945	GAACCTACTGATTAATGGAGCAGGTGCTGATCTACTAAAGGATGACGGTGTCTACTCAAG	2004
QY	865	GACTTTAAGAAAAACCACTCTATGACACACAGCCACCAAAATCCACACTTCTCATTTGCTG	924		641	GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg	660
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300		2005	TATTTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGAGTGGGCTCTGGAGGA	2064
QY	925	CAGATTGGACAAAGAAATGTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGGCGACTGT	984		661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320		2065	GTTAACGCGCCAGACGAGGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCG	2124
QY	985	RACCGCCTCAATCGACTGATCAAGAGCCAGCTTTTCTCTGCTGAGACATTCAGCTG	1044		681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340		2125	TGGATTGAATGATGAAATCAATGGAATCCACCAAGACCTGAAATTAATAAGGATGAT	2184
QY	1045	GGGTCTCTGGTGGGATGTGTGATTTGTACAGTGTGCGCCAGTGTCAAGTCAACTCAT	1104		701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360		2185	GTTCAACAACAGCAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTCT	2244
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Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAlaSer	380		2245	GATGTCCCAATGTCTCCCATACCTGATCTCTTCCACCTGCGCAATCACCAGCTGAG	2304
QY	1165	GGAGGAGCTCCATCTGACGGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT	1224		741	AspValProAsnAlaProlleProAspLeuPheProGlyGlnIleThrAspLeuLys	760
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400		2305	CGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGAGTATTAT	2364
QY	1225	CCAACTGATGATCTGAAATTTGTCTGCTGCGGATGGGAGACAACTATAAGTGGG	1284		761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420		2365	GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAGTATTCCTTGATCTCAGA	2424
QY	1285	TGCTTTAACGAGGTCAAAACAAAGTGGTGCCTATCCATCCACAGTCCGCTTTGGGGCCCTCT	1344		781	AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg	800
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440		2425	GACAAGTTCAATGAATCTTTCAAAGTGAATACTACTGCTCTCATCCCCAAAGAGCCCAAC	2484
QY	1345	GCAGTCAAGACTAGAGGAGCTGTCCAATATGACAGAGGTTTACAGACATATGCTTCA	1404		801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
Db	441	AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460		2485	TCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTAATTTTGAAAAATGGCACAGATCTT	2544
QY	1405	GATCAAGTTTCAGAACATATGGCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGGA	1464		821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480		2545	TTCAATTCCTATTCAGGCTGTGTAAGTGTGATCTGAAATCAGAAATATCCAACTGCA	2604
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Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500		2605	CGAGTATCTTTGTTTATTTCTCCACAGACTCCCGCCAGACACACTAGTCTCTGATGAAACG	2664
QY	1525	TGGATGATGACAGTATCTGTGACAGCACCGGTGGGAAAGGACACTTGTCTTTATC	1584		861	ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr	880
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Db	521	ThrTrpThrThrGlnProGlnIleLeuLeuThrAspProSerGlyGlnLysGlnGly	540		2725	ATTATGTGGAAGTGGATAGGAGAACTCCAGCTGTCAATAGCC	2766
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Db 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
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QY 1765 TCCGTGCGCTCAATGCTACCTGCTCCCAATACAGTACTTCCAAAACGCAAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAATCCCGAGCCCTCTGTAGTATTATGCAATATTGCGCAAGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
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Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GNACTACTGGATAATGGAGCAGGTGTGATGCTACTAAGGATGACGGTGTCTACTCAAG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660  
QY 2005 TATTTCAACACTTATGACAGCAATGATGATACAGTGAATGAGTGAATTAATAAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGCAGACACTCTCGGAGGCTCATTTGTGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGTCTCCATACCTGATCTCTTCCACCTGCGCAATCACCGACTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuAsn 760  
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QY 2365 GACCATGGAACAGCTCAAGATATATCATTCGAATAAGTACAAGTATCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
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Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
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; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

Alignment Scores:  
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Score: 4476.00 Matches: 858  
Percent Similarity: 99.85% Conservative: 1  
Best Local Similarity: 99.54% Mismatches: 3  
Query Match: 88.11% Indels: 0  
DB: 14 Gaps: 0  
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289 |||||  
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1861 AATATTGCCAAGAGAGCTCCCAATTTCTAGGGCCAGTGTACAGCCCTGATTCAAATCA 1920  
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 Job time : 386.484 secs

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model  
Run on: October 15, 2004, 16:01:09 ; Search time 36.6799 Seconds  
(without alignments)  
6085.795 Million cell updates/sec

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Perfect score: 3040  
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Scoring table: BLOSUM62  
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Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 478139 seqs, 66318000 residues  
Total number of hits satisfying chosen parameters: 956278  
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Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2521	82.9	914	4	US-09-623-624-6
2	2521	82.9	914	4	US-10-270-595-6
3	2518	82.8	914	3	US-09-193-562D-28
4	2518	82.8	914	4	US-10-055-412B-28
5	1906	62.7	913	4	US-09-623-624-2
6	1906	62.7	913	4	US-10-270-595-2
7	1477	48.6	917	3	US-09-049-696-41
8	1203	39.6	228	1	US-09-469-667-9
9	1203	39.6	228	3	US-09-224-110-9
10	1203	39.6	228	5	PCT-US95-07289-9
11	1198	39.4	903	3	US-09-193-562D-46
12	1198	39.4	903	4	US-10-055-412B-46

13	1147	37.7	903	4	US-09-623-624-18	Sequence 18, Appl
14	1147	37.7	903	4	US-10-270-595-18	Sequence 18, Appl
15	1106	36.4	905	3	US-09-193-562D-2	Sequence 2, Appli
16	1106	36.4	905	4	US-10-055-412B-2	Sequence 2, Appli
17	1095	36.0	902	3	US-09-193-562D-34	Sequence 34, Appl
18	1095	36.0	902	4	US-10-055-412B-34	Sequence 34, Appl
19	1069	35.2	1000	3	US-09-193-562D-30	Sequence 30, Appl
20	1069	35.2	1000	4	US-10-055-412B-30	Sequence 30, Appl
21	998.5	32.8	920	4	US-09-643-597-357	Sequence 357, App
22	998.5	32.8	920	4	US-09-630-940B-357	Sequence 357, App
23	998.5	32.8	942	4	US-09-919-172-87	Sequence 87, Appl
24	998.5	32.8	943	4	US-09-643-597-161	Sequence 161, App
25	998.5	32.8	943	4	US-09-480-884A-161	Sequence 161, App
26	998.5	32.8	943	4	US-09-542-615A-161	Sequence 161, App
27	998.5	32.8	943	4	US-09-606-421B-161	Sequence 161, App
28	998.5	32.8	943	4	US-09-623-624-4	Sequence 4, Appli
29	998.5	32.8	943	4	US-09-221-107-161	Sequence 161, App
30	998.5	32.8	943	4	US-09-466-396A-161	Sequence 161, App
31	998.5	32.8	943	4	US-09-476-496A-161	Sequence 161, App
32	998.5	32.8	943	4	US-10-270-595-4	Sequence 4, Appli
33	998.5	32.8	943	4	US-09-193-562D-32	Sequence 32, Appl
34	987.5	32.5	943	3	US-09-630-940B-161	Sequence 161, App
35	987.5	32.5	943	4	US-09-193-562D-32	Sequence 32, Appl
36	903	29.7	795	3	US-09-193-562D-11	Sequence 11, Appl
37	903	29.7	795	4	US-10-055-412B-11	Sequence 11, Appl
38	903	29.7	821	3	US-09-193-562D-12	Sequence 12, Appl
39	903	29.7	821	4	US-10-055-412B-12	Sequence 12, Appl
40	785.5	25.8	791	4	US-09-643-597-170	Sequence 170, App
41	785.5	25.8	791	4	US-09-480-884A-170	Sequence 170, App
42	785.5	25.8	791	4	US-09-542-615A-170	Sequence 170, App
43	785.5	25.8	791	4	US-09-606-421B-170	Sequence 170, App
44	785.5	25.8	791	4	US-09-466-396A-170	Sequence 170, App
45	785.5	25.8	791	4	US-09-476-496A-170	Sequence 170, App

ALIGNMENTS

RESULT 1  
US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

## Alignment Scores:

Pred. No.: 1,85e-239 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-623-624-6 (1-914)

QY 3 CAAGTGTGCGCATCATCCACAGCTCGCTTTGGGGCCCTCTGCAGCTCAAGACTAGAG 62  
DB 427 GlnSerGlyAlaIleHieThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATCACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122  
DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsn 466  
QY 123 GGCCTCATGTGCTTTTGGGGCCCTTCATCAGGAATGGAGTGTCTCTCAGCGTCC 182  
DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCCAGTGGATGAATGCACAGTG 242  
DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCTGGGACAGCACCGTGGAAAGACACTTTGTTTCTTATCACCTGGACACGAGCCT 302  
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnPro 526  
QY 303 CCCCAATCTTCTCTGGGATCCAGTGACAGAGCAAGAGTGGCTTTGTAGTGACAAA 362  
DB 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546  
QY 363 AACACAAAATGGCTACTCCAAATCCAGGACGCTTAAGTGGCACTTGGAAATAC 422  
DB 547 AsnThrLysMetAlaTrpLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTrp 566  
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACTCCGCTCGCTCCCAATGCT 482  
DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586  
QY 483 ACCCTGCTCCAAATTACAGTACTTCCAAACGAAACAGACACACGCAAAATCCCGAGC 542  
DB 587 ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
QY 543 CCTCTGTGATTTATCAATATTCGCAAGAGCCCTCCCAATCTCAGGGCCAGTGC 602  
DB 607 ProLeuValValTyAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
QY 603 ACAGCCCTGATTGAATCAGTGAATGGAACAAACAGTTTACCTTGGAACTACTGGATAATGGA 662  
DB 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646  
QY 663 GCAGGTGCTGATGCTACTAAGATGAGCGGTGCTTACTCAAGGTATTTCACACTTATGAC 722  
DB 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTySerArgTyThrThrTyAsp 666  
QY 723 ACAATGGTGTAGTACAGTGTAAAGTCGCGCTCTGGAGGAGTTAAACGAGCAGCACAGG 782  
DB 667 ThrAsnGlyArgTyThrValLysValAlaLeuGlyGlyValAsnAlaAlaArgArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGATGATAA 842  
DB 687 ArgValIleProGlnGlnSerGlyAlaLeuTyIleProGlyThrIleGluAsnAspGlu 706

QY 843 ATACAAATGGATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAAAGCAAGTG 902  
DB 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
QY 903 TGTTCAGCAGACACATCTCGGAGGCTCAATTTGTGGCTTCTGTATGTCCTCCAAATGCTCCC 962  
DB 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCACGACCTGAAGCGGAAATTCACGGGGC 1022  
DB 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
QY 1023 AGTCTCATTAATCTGACTTGCACAGCTCTCGGATGATTAATGACCATGGAAACAGCTCAC 1082  
DB 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyThrAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGAATAAGTACAGTATCTTGTATCTCAGACAGCAAGTTCAATGAATCT 1142  
DB 787 LysTyIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTGAATACTACTCTCTCATCCAAAGGAGCAACTCTGAGGAACTCTTTTGTG 1202  
DB 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826  
QY 1203 TTTAAACACAGAAAACATTACTTTTGAATATGGCACAGATCTTTTCATTGCTATTTCAGGCT 1262  
DB 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGATAAGTGCATCTGAAATCAGAAATATCCAAATTCACGACGAGTATCTTTGTTATT 1322  
DB 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTTCCACAGACTCCCGCAGACACCTAGTCTGTATGAACGCTGCTCTCTGCTCTTAAT 1382  
DB 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTCAATATCAACAGACACCATCTCTGGCATTCCTGCAATTCACATTTTAAAAATTTATGTGGAAGTGGATA 1442  
DB 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466  
DB 907 GlyGluLeuGlnLeuSerIleAla 914

## RESULT 2

US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-270-595-6

Alignment Scores:
Pred. No.: 1-85e-239 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-270-595-6 (1-914)
QY 3 CHAAGTGTGCATCATCCACAGTCGCTTTGGGCGCTCTGCAGCTCAAGAACTAGAG 62
DB 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAATACACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGCAAT 122
DB 447 GluLeuSerLysMetThrGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY 123 GGCCTCATGTATGCTTTTGGGCGCTTTTCATCAGGAATGGAGTGTCTCTCAGAGCTCC 182
DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242
DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTyrMetAsnGlyThrVal 506
QY 243 ATCGTGGACAGCCGCTGGGAAGGACACTTGTCTTATCATCCCTGGACACAGCGCT 302
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTyrThrGlnPro 526
QY 303 CCCCAAAATGCTCTCTGGATCCCACTCAATCCAGGCAATGCTAAGTTGGCACTTGGAAATAC 422
DB 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTyrLysTyr 566
QY 423 AGTCTGCAAGCAAGCTCAACACTTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 482
DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAla 586
QY 483 ACCCTGCTCCAAATACAGTACCTTCCAAACAGAACAGGACACACAGCAAAATCCCGCAGC 542
DB 587 ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
QY 543 CCTCTGTTAGTTATGAAATATTTCGCAAGAGCGCTCCCAATTTCTCAGGCGCAGTGTC 602
DB 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
QY 603 ACAGCTGATTGATCAGTCAATGGAAGAACAGTACCTTGGAACTACTCGATAATAGGA 662
DB 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646
QY 663 GCAGGTGCTGATGCTACTAAGATGACGCTGCTACTCAAGGTATTTCACAACTTATGAC 722
DB 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrTyrAsp 666
QY 723 ACGAATGGTATACAGTGTAAAGTGGCGCTCTGGGAGGAGTTAAGCGACCGACGAGCGG 782

Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATGAA 842
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTG 902
Db 707 IleGlnTrpAsnProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY 903 TGTTCAGCAGAAATCCTCGGAGGCTCATTTGGCTTCTGATGCTCCCAATGCTCCC 962
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACCTGATCTCTCCACCTGCGCAAAATCACCGACCTGAAAGCGGAAATTCACCGGGGC 1022
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACATGGACAGCTCAC 1082
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspTyrAspHisGlyThrAlaHis 786
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTGTATCTCAGAGACAAGTTCAATGAATCT 1142
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAAGTGAATATCTACTGCTCTCTATCCCAAGGAGCAACTCTGAGGAAGCTCTTTTG 1202
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
QY 1203 TTTAAACCAAGAAACATTTACTTTGAAAATGGCAGAGATCTTTTCATGCTATTCAGGCT 1262
Db 827 PheLysProGluLysAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY 1263 GTTGATAAGTTCGATCTCAAAATCAGAAATATCCAACTGACAGAGTATCTTTGTTTATT 1322
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 CCTCCACAGACTCCCGCCAGACACACTAGTCTCTGATGAAAGCTCTGCTCTCTGCTTAAT 1382
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QY 1443 GGAGAACTGCAGCTGTCAATAGCC 1466
Db 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 3
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-193-562D-28

Alignment Scores:
Pred. No.: 3.66e-239 Length: 914
Score: 2518.00 Matches: 487

Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.80% Mismatches: 0  
Query Match: 82.83% Indels: 0  
DB: 3 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-193-562D-28 (1-914)

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QY 63 GAGCTCTCCAAAATCAGAGGCTTACAGACATATGCTCAGATCAAGTTCCAGAACAT 122  
DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466

QY 123 GCGCTCATTTGCTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC 182  
DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCAGATG 242  
DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506

QY 243 ATCGTGGACAGCACCGTGGAAAGACACTTTGTTTATCACCTGGACACGCGCT 302  
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCCAATCCTTCTCTGGGATCCCGAGTGGACAGCAAGTGGCTTTGTAGTGACAAA 362  
DB 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546

QY 363 AACACAAAATGGCTTACCTCAAAATCCAGGATTCGTAAGTGGCGACTTGGAAATAC 422  
DB 547 AsnThrLysMetAlaIleLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566

QY 423 ACTCTGCAAGCAGCTCAAAACCTTGACCTGCTGCTCACCTGCGCTGCTCAATGCT 482  
DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586

QY 483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGGACACAGCAAAATCCCGACG 542  
DB 587 ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

QY 543 CTTCTGGTGTATTCGAAATATCCGAGGAGCTCCCAATTCCTGAGGCGCGCTGTC 602  
DB 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626

QY 603 ACAGCCCTGATTAAGTCAAGTGAATGAAACAGTGTACCTTGGAACTACTGGATATGGA 662  
DB 627 ThrAlaLeuIleGluSerValIleGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646

QY 663 GCAGGTGCTGATCTACTAAGATGACGGTGTCTACTCAAGGTATTTCAACTTATGAC 722  
DB 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666

QY 723 ACGAATGTTAGATACAGTGTAAAGTCCGGCTCTGGAGGAGTTAACCGCAGCCAGCG 782  
DB 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686

QY 783 AGAGTGTATCCCGCAGAGTGGAGCTGTACATACCTGCTGGCTGGATTTGAGATGATGAA 842  
DB 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706

QY 843 ATACAATGGAATCCCAAGACCTGAAATTAATTAAGATGATGTTTCAACACAGCAAGTG 902  
DB 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726

QY 903 TGTTTCAGCAGACATCTCGGAGGCTCATTTGCTGCTTCTGATGCTCCCAATGCTCCC 962  
DB 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746

QY 963 ATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGCGGGC 1022

DB 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766

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DB 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786

QY 1083 AAGTATATCATTCGAATAAGTACAAAGTATCTTGTATCTCAGAGACAACTTCAATGAATCT 1142

DB 787 LysTyrIleIleAlaArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806

QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCAAAGAGCAACTCTCGAGGAAGTCTTTTGTG 1202

DB 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826

QY 1203 TTTAAACCAGAAACACTTACTTTGAAATGCGCAGATCTTTTCATTCGCTATTCCAGGCT 1262

DB 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846

QY 1263 GTTGATAAGTCTGATCTGAAATATCCAAATATCCCACTTGCACGAGTATCTTTGTTATT 1322

DB 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866

QY 1323 CTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTGCTCTTCTCTAAT 1382

DB 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886

QY 1383 ATTCATATCAACAGACCACTCTCGCATTCACATTTTAAAAATTTATGTGAAGTGGATA 1442

DB 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906

QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466

DB 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 4  
US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores: 3,66e-239 Length: 914  
Score: 2518.00 Matches: 487  
Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.80% Mismatches: 0  
Query Match: 82.83% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-055-412B-28 (1-914)

QY 3 CAAAGTGTGCGCATCATCCACAGTGCCTTTGGGGCCCTCTGCGCTCAAGAACTAGAG 62

DB 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446

QY 63 GAGCTCTCCAAAATCAGAGGCTTACAGACATATGCTCAGATCAAGTTCCAGAACAT 122

DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466

QY 123 GCGCTCATTTGCTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC 182

DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCAGATG 242

DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506

QY 243 ATCGTGGACAGCACCGTGGAAAGACACTTTGTTTATCACCTGGACACGCGCT 302

DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCCAATCCTTCTCTGGGATCCCGAGTGGACAGCAAGTGGCTTTGTAGTGACAAA 362

DB 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546

QY 363 AACACAAAATGGCTTACCTCAAAATCCAGGATTCGTAAGTGGCGACTTGGAAATAC 422

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DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586

QY 483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGGACACAGCAAAATCCCGACG 542

DB 587 ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

QY 543 CTTCTGGTGTATTCGAAATATCCGAGGAGCTCCCAATTCCTGAGGCGCGCTGTC 602

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QY 603 ACAGCCCTGATTAAGTCAAGTGAATGAAACAGTGTACCTTGGAACTACTGGATATGGA 662

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QY 663 GCAGGTGCTGATCTACTAAGATGACGGTGTCTACTCAAGGTATTTCAACTTATGAC 722

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QY 723 ACGAATGTTAGATACAGTGTAAAGTCCGGCTCTGGAGGAGTTAACCGCAGCCAGCG 782

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 QY 183 ATCCAGCTTGAGAGTAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242  
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 QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATTTCAACACAAAGCAAGTG 902  
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 ; Sequence 2, Application US/09623624  
 ; Patent No. 6576434  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Magainin Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
 ; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
 ; TITLE OF INVENTION: Disorders  
 ; FILE REFERENCE: 36870-5073-WO  
 ; CURRENT APPLICATION NUMBER: US/09/623,624  
 ; CURRENT FILING DATE: 2000-09-06  
 ; PRIOR APPLICATION NUMBER: PCT/US99/04703  
 ; PRIOR FILING DATE: 1999-03-03  
 ; PRIOR APPLICATION NUMBER: US 08/697,360  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,419  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,440  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,471  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,471  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,472  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,473  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,105  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,110  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,168  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/980,872  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 2  
 ; LENGTH: 913  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-09-623-624-2  
 Alignment Scores:  
 Pred. No.: 7,64e-179 Length: 913  
 Score: 1906.00 Matches: 365  
 Percent Similarity: 87.30% Conservative: 61  
 Best Local Similarity: 74.80% Mismatches: 56  
 Query Match: 62.70% Indels: 6  
 DB: 4 Gaps: 3  
 US-09-049-696-19 (1-1683) x US-09-623-624-2 (1-913)

QY 3 CAAGTGGTGCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 428 GlnSerGlyAlaIleIleThrValAlaLeuGlyProAlaAlaAlaAlaGlnLeuGlu 447  
QY 63 GAGCTGTCCTCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122  
Db 448 GlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSerSerAspGlnValGlnAsnAsn 467  
QY 123 GGCCTCAITGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182  
Db 468 GlyLeuValAspAlaPheAlaAlaLeuSerSerGlyAsnAlaAlaIleAlaGlnHisSer 487  
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACACAGCAGTGAATGAGTGCACAGTG 242  
Db 488 IleGlnLeuGluSerArgGlyValAsnLeuGlnAsnGlnTrpMetAsnGlySerVal 507  
QY 243 ATCTGGGACAGCAGCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACGAGCGCT 302  
Db 508 IleValAspSerSerValGlyLysAspThrLeuPheLeuIleThrTrpThrHisPro 527  
QY 303 CCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAAAGCAAGTGGCTTGTAGTGGACAAA 362  
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QY 363 AACACAAAATGGCTTACTCCAAATCCAGGATCTTAAGTGGACACTTGGCAATAC 422  
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QY 483 ACCCTGCTCCATTAATACAGTACTTCCAAAACCAAGCAACAGCACCAAAATCCCCAGC 542  
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QY 543 CCTCTGGTGTATGTCAAATATTCGCAAGAGCCTCCCAATCTCCAGGCGCAGTGC 602  
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QY 723 ACGATGTAGATACAGTGTAAAGTCGGGCTCTGGAGGAGCTTAACGACGACGACGG 782  
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QY 783 AGAGTGATACCCAGCAGAGTGGACACTGTATATACCTGGCTGGATTGAGATGATGAA 842  
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QY 843 ATCAATGGAATCCACCAAGACTGAAATTAATTAAGGATGATGTTCAACACAGCAAGTG 902  
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RESULT 6  
US-10-270-595-2  
; Sequence 2, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-270-595-2  
  
Alignment Scores:  
Pred. No.: 7,64e-179 Length: 913  
Score: 1906.00 Matches: 365  
Percent Similarity: 87.30% Conservative: 61

Best Local Similarity: 74.80% Mismatches: 56  
Query Match: 62.70% Indels: 6  
DB: 4 Gaps: 3  
US-09-049-696-19 (1-1693) x US-10-270-595-2 (1-913)

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DB 428 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProAlaAlaIleAlaLeuGlu 447  
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DB 448 GlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSerSerAspGlnValGlnAsnAsn 467  
QY 123 GGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 182  
DB 468 GlyLeuValAspAlaPheAlaLeuSerSerGlyAsnAlaIleAlaGlnHisSer 487  
QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242  
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DB 668 AlaAsnGlyArgTyrSerValLysIleTrpAlaLeuGlyValThrSerAspArgGln 687  
QY 783 AGAGTGATACCCAGAGAGTGGAGCTGTACATACCTGCTGGATGAGATGATGAA 842  
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QY 843 ATACAAATGGAATCCACCAAGACCTGAATTAATTAAGGATGATGTTCAACACACAAAGTG 902  
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QY 903 TGTTTCAGCAAGACATCCTCGGAGGCTCATTTGCTTGGCTTCTGATGTCCTCA--AATGCT 959  
DB 726 CysPheSerArgThrSerSerGlyGlySerPheValAlaThrAsnValProAlaAlaAla 745  
QY 960 CCGATACCTGATCTTCCACCTGGCCAAATACCGACCTGGAAGCGGAAATTCACGGG 1019  
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QY 1020 GGCAAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATTTATGACCATGGAACAGCT 1079  
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QY 1080 CACAAGTATATCATGTAAGTACAGTCAAGTATTTCTTGTATCTCAGACACAAAGTTCATGAA 1139  
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QY 1200 TTGTTTAAACCAAGAAAACATTAATCTTTGAAAATGGCACAGATCTTTTCAATGCTATTCAG 1259  
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QY 1320 ATCTCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACAGCTCTCTCTCTCTCT 1379  
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QY 1380 ATATTCATATCAACAGACACCATTCCTGCAATTCACATTTTAAATAATATGGAAGTGG 1439  
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DB 903 LeuGlyGluMetGlnValThrLeu 910

RESULT 7  
US-09-049-698-41  
; Sequence 41, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441

REFERENCE/DOCKET NUMBER: 6068.US.P1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 847/935-1729

TELEFAX: 847/938-2623

TELEX:

INFORMATION FOR SEQ ID NO: 41:

SEQUENCE CHARACTERISTICS:

LENGTH: 917 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: No. 6368792e

US-09-049-698-41

Alignment Scores:

Pred. No.:	1.47e-136	Length:	917
Score:	1477.00	Matches:	293
Percent Similarity:	75.26%	Conservative:	72
Best Local Similarity:	60.41%	Mismatches:	112
Query Match:	48.59%	Indels:	8
DB:	3	Gaps:	5

US-09-049-696-19 (1-1683) x US-09-049-698-41 (1-917)

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QY      3  CAAAGTGTGCCATCATCACACAGTCGCTTTGGGCGCTCTGCGAGCTCAAGAACTAGAG 62
DB      428  GlnSerGlyAlaIleValHisPheIleAlaLeuGlyArgAlaAspGluAlaValIle 447

QY      63  GAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122
DB      448  GluMetSerLysIleThrGlyGlySerHisPheTyrValSerAspGluAlaGlnAsnAsn 467

QY      123  GGCCTCATGTATGCTTTGGGCGCTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCC 182
DB      468  GlyLeuIleAspAlaPheGlyAlaLeuThrSerGlyAsnThrAspLeuSerGlnLysSer 487

QY      183  ATCCAGCTTGACAGTAAGGATTAACCTCCAGAACAGCAGCGAGTGAATGAATGCCAGATG 242
DB      488  LeuGlnLeuGluSerLysGlyLeuThrLeuAsnSerAsnAlaTrpMetAsnAspThrVal 507

QY      243  ATCTGTGAGCAGCAGCGTGGGAAAGGACACTTTGTTTATCACCTGGACAAACGCGAGCT 302
DB      508  IleIleAspSerThrValGlyLysAspThrPhePheLeuIleThrTrpAsnSerLeuPro 527

QY      303  CCCCAATCCTCTCTCGGATCCAGTGGACAGACAGGAGTGGCTTTGTAGTGGACAA 362
DB      528  ProSerIleSerLeuTrpAspProSerGlyThrIleMetGluAsnPheThrValAspAla 547

QY      363  AACACCAAAATGGCTTACCTCCAAATCCAGGAGTGTAAAGTTCGCACTTGGAAATAC 422
DB      548  ThrSerLysMetAlaIleLeuSerIleProGlyThrAlaLysValGlyThrTrpAlaTyr 567

QY      423  AGTCTCAAGCAAGCTCA-----CAAACCTTGACCTGACTGCTCAGTCCCGTGGCTCC 476
DB      568  AsnLeuGlnAlaLysAlaAsnProGluThrLeuThrIleThrValThrSerArgAlaAla 587

QY      477  ATGCTACCTGCTGCTCAATTACAGTACTTCCAAACAGAACAGACAGCACCAACCAATTC 536
DB      588  AsnSerValProProIleThrValAsnAlaLysMetAsnLysAspValAsnSerPhe 607

QY      537  CCCAGCCCTCTGTAGTTATGCAATATATCGCAGGAGCGCTCCCAATCTTCAGGGCC 596
DB      608  ProSerProMetIleValTyrAlaGluIleLeuGlnGlyTyrValProValLeuGlyAla 627

QY      597  AGTGTCAAGCCCTGTATGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGAT 656
DB      628  AsnValThrAlaPheIleGluSerGlnAsnGlyHisThrGluValLeuGluLeuLeuAsp 647

QY      657  AATGGAGCAGCTGTGATGCTACTTAAGATGACGCTGTCTACTCAAGTATTTCACAACT 716
DB      648  AsnGlyAlaGlyAlaAspSerPheLysAsnAspGlyValTyrSerArgTyrPheThrAla 667

QY      717  TATGACACGAATGTTAGTATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAAGCGCACC 776

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DB      668  TyrThrGluAsnGlyArgTyrSerLeuLysValArgAlaHisGlyGlyAlaAsnThrAla 687
QY      777  AGACGGAGAGTGATACCCACAGCAGACAGTGGACACTGTACATACCTGGCTGGATTGAGAAAT 836
DB      688  ArgLeuLysLeuArgProProLeuAsnArgAlaIleTyrIleProGlyTyrValValAsn 707
QY      837  GATGAATACAAATGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACAAG 896
DB      708  GlyGluIleGluAlaAsnProProArgProGluIleAsp---GluAspThrGlnThrThr 726
QY      897  CAAGTGTGTTTCAGCAGAACATCCTCGGAGGCTCATTTGGGCTTCTGATGTCCCAAT 956
DB      727  LeuGluAspPheSerArgThrAlaSerGlyAlaPheValValSerGlnValProSer 746
QY      957  GCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAC 1016
DB      747  LeuProLeuProAspGlnTyrProProSerGlnIleThrAspLeuAspAlaThrValHis 766
QY      1017  GGGGCGAGCTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATATTAGACCATGGAACA 1076
DB      767  GluAspLysIleIle---LeuThrTrpThrAlaProGlyAspAsnPheAspValGlyLys 785
QY      1077  GCTCAAGTATATCATTCGAATAAGTACAAAGTATCTTGATCTCAGACAGCAAGTTCAT 1136
DB      786  ValGlnArgTyrIleIleArgIleSerAlaSerIleLeuAspLeuArgAspSerPheAsp 805
QY      1137  GAATCTCTCAAGTCAATACTACTCTCTCATCCCAAGAGGACCAACTCTCGAGGAAGTC 1196
DB      806  AspAlaLeuGlnValAsnThrThrAspLeuSerProLysGluAlaAsnSerLysGluSer 825
QY      1197  TTTTGTGTTTAAACCAAGAAACATTAATTTTGAATAAGGCAGACAGATCTTTTCAATGCTAT 1256
DB      826  PheAlaPheLysProGluAsnIleSerGluGluAsnAlaThrHisIlePheIleAlaIle 845
QY      1257  CAGGCTGTGATGAAGTGCATCTGAAATCAGAAATATCCAACTTCACGACGATCTTTG 1316
DB      846  LysSerIleAspLysSerAsnLeuThrSerLysValSerAsnIleAlaGlnValThrLeu 865
QY      1317  TTTTATCTCCACAGACTCCGCGCAGACACCTAGTCTCTGTATGAACACGTCCTCTCTGT 1376
DB      866  PheIle---ProGlnAlaAsnProAspIleAspProThrProThrProThrProThr 884
QY      1377  CTAATATTCATATCAACAGACCACTCTCTGCAATTCACATTTTAAATTTGTGGAAG 1436
DB      885  ProAspLysSerHisAsnSer-----GlyValAsnIleSerThrLeuValLeuSer 901
QY      1437  TGGATAGGAGAACTG 1451
DB      902  ValIleGlySerVal 906

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# RESULT 8

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; US-08-469-667-9
; Sequence 9, Application US/08469667
; Patent No. 5733748
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/469,667  
 ; FILING DATE: 06-JUN-1995  
 ; CLASSIFICATION: 536  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ferraro, Gregory D.  
 ; REGISTRATION NUMBER: 36,134  
 ; REFERENCE/DOCKET NUMBER: 325800-435  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 201-994-1700  
 ; TELEFAX: 201-994-1744  
 ; INFORMATION FOR SEQ ID NO: 9:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 228 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-469-667-9

Alignment Scores:  
 Pred. No.: 7,04e-110 Length: 228  
 Score: 1203.00 Matches: 228  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 39.57% Indels: 0  
 DB: 1 Gaps: 0

US-09-049-696-19 (1-1683) x US-08-469-667-9 (1-228)

QY	693	GTCTACTCAAGTATTTCACACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGG	752
Db	1	ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	753	GCTCTGGGAGGAGTTAAACCCAGCCAGCAGGAGTATACCCAGAGTGGAGCACTG	812
Db	21	AlaLeuGlyGlyValAsnAlaAlaArgValIleProGlnGlnSerGlyAlaLeu	40
QY	813	TACATACCTGGTGGATTGAGAAATGAAATGAAATGAAATGAAATGAAATGAAATG	872
Db	41	TyrIleProGlyTyrIleGluAsnAspGluIleGlnTrpAsnProArgProGluIle	60
QY	873	AATAAGATGATGTTCAACACAGCAAGTGTCTTTTTCAGCAGAACATCTCTCGGAGGCTCA	932
Db	61	AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlySer	80
QY	933	TTTGTGGCTTCGTGATCCCAATGCTCCCATCTGATCTCTCCCATCTGCGCAATTC	992
Db	81	PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle	100
QY	993	ACCGACCTGAAGCGGAAATTCACGGGGCAGTCTCATTAAATCTGACTTGGACACTCCT	1052
Db	101	ThrAspLeuLysAlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaPro	120
QY	1053	GGGATGATTTATGACCATGGAACAGCTCACAGTATATCATTCGAATAAGTACAGTATT	1112
Db	121	GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle	140
QY	1113	CTTGATCTCAGAGCAAGTCTCAATGAATCTCTCAAGTGAATACTACTGCTCTCATCCCA	1172
Db	141	LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro	160
QY	1173	AAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCCAGAAACATTTACCTTTTGAAAT	1232
Db	161	LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn	180
QY	1233	GGCAGATCTTTTCATTGCTATTACGCTCTTGAAGTTCGATCTGAAATCAGAAATA	1292
Db	181	GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle	200
QY	1293	TCCACATTTGACAGGATCTTTTGTGTTTTCCTCCAGACATCTCCGCGCAGACACTAGT	1352
Db	201	SerAsnIleAlaArgValSerLeuPheIleProGlnThrProProGluThrProSer	220

QY 1353 CTTGATGAACAGTCTGCTCTCTTCT 1376  
 Db 221 ProAspGluThrSerAlaProCys 228

# RESULT 9

US-09-224-110-9  
 ; Sequence 9, Application US/09224110  
 ; Patent No. 6337195  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yu, Guo-Liang  
 ; APPLICANT: Rosen, Craig  
 ; TITLE OF INVENTION: Colon Specific Genes and Proteins  
 ; NUMBER OF SEQUENCES: 24  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
 ; ADDRESSEE: Stewart & Olstein  
 ; STREET: 6 Becker Farm Road  
 ; CITY: Roseland  
 ; STATE: NJ  
 ; COUNTRY: USA  
 ; ZIP: 07068-1739  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/224,110  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/469,667  
 ; FILING DATE: 06-JUN-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ferraro, Gregory D.  
 ; REGISTRATION NUMBER: 36,134  
 ; REFERENCE/DOCKET NUMBER: 325800-435  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 201-994-1700  
 ; TELEFAX: 201-994-1744  
 ; INFORMATION FOR SEQ ID NO: 9:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 228 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-224-110-9

Alignment Scores:  
 Pred. No.: 7,04e-110 Length: 228  
 Score: 1203.00 Matches: 228  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 39.57% Indels: 0  
 DB: 3 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-224-110-9 (1-228)

QY	693	GTCTACTCAAGTATTTCACAACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGG	752
Db	1	ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	753	GCTCTGGGAGGAGTTAAACCCAGCCAGCAGGAGTATACCCAGAGTGGAGCACTG	812
Db	21	AlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeu	40
QY	813	TACATACCTGGTGGATTGAGAAATGAAATGAAATGAAATGAAATGAAATGAAATG	872
Db	41	TyrIleProGlyTyrIleGluAsnAspGluIleGlnTrpAsnProArgProGluIle	60
QY	873	AATAAGATGATGTTCAACACAGCAAGTGTCTTTTTCAGCAGAACATCTCTCGGAGGCTCA	932
Db	61	AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlySer	80

QY	933	TTTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCGCAATC	992
Db	81	PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProProGlyGlnIle	100
QY	993	ACCGACCTGAAGGGGAAATTCACGGGGGAGTCTCATTAACTCTGACTTGACAGCTCCT	1052
Db	101	ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrTriProAlaPro	120
QY	1053	GGGGATGATTATGACCATGGAACACCTCACAGTATATCATTCGAATAAGTACAGTATT	1112
Db	121	GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleLeuArgIleSerThrSerile	140
QY	1113	CTTGATCTCAGACAGCAAGTCAATCAATCTCTTCAAGTGAATACACTCTCTCTCATCCCA	1172
Db	141	LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro	160
QY	1173	AAGGAAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAGAAACATTACTTTTCAAAAT	1232
Db	161	LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn	180
QY	1233	GGCAGACATCTTTTCATTGCTATTTCAGGCTGTTGATAAGTCTGATCTGAAATCAGAAATA	1292
Db	181	GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle	200
QY	1293	TCCAACTTGCAGAGTATCTTTGTTTATCTTCCACAGACTCCCGCAGAGACACCTAGT	1352
Db	201	SerAsnIleAlaArgValSerLeuPheIleProProGlnThrProProGluThrProSer	220
QY	1353	CTGTGATGAACGCTGCTCTCTTGT	1376
Db	221	ProAspGluThrSerAlaProCys	228
RESULT 10			
PCT-US95-07289-9			
; Sequence 9, Application PC/TUS9507289			
; GENERAL INFORMATION:			
; APPLICANT: Yu, Guo-Liang			
; APPLICANT: Rosen, Craig			
; TITLE OF INVENTION: Colon Specific Genes and Proteins			
; NUMBER OF SEQUENCES: 24			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,			
; ADDRESSEE: Stewart & Olstein			
; STREET: 6 Becker Farm Road			
; CITY: Roseland			
; STATE: NJ			
; COUNTRY: USA			
; ZIP: 07068-1739			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: PatentIn Release #1.0, Version #1.30			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: PCT/US95/07289			
; FILING DATE: 06-JUN-1995			
; CLASSIFICATION:			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Ferrari, Gregory D.			
; REGISTRATION NUMBER: 36,134			
; REFERENCE/DOCKET NUMBER: 325800-265			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: 201-994-1700			
; TELEFAX: 201-994-1744			
; INFORMATION FOR SEQ ID NO: 9:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 228 amino acids			
; TYPE: amino acid			
; TOPOLOGY: linear			
; MOLECULE TYPE: protein			
; PCT-US95-07289-9			

Alignment Scores:			
Pred. NO.:	7.04e-110	Length:	228
Score:	1203.00	Matches:	228
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	39.57%	Indels:	0
DB:	5	Gaps:	0
US-09-049-696-19 (1-1683) x PCT-US95-07289-9 (1-228)			
QY	693	GTCTACTCAAGTATTTTCACAACTATACACAGTAATGATATACAGTGTAAAGTCGG	752
Db	1	ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	753	GCTCTGGAGAGTAAACGACCCAGACGAGAGTATACCCACAGACAGTGGAGCACTG	812
Db	21	AlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeu	40
QY	813	TACATACCTGGCTGGATTGAGAATGATAATGAAATACAAATCCACCAAGACCTGAAAT	872
Db	41	TyrIleProGlyTyrIleGluAsnAspGluIleGlnTyrAsnProProArgProGluIle	60
QY	873	AATAAGGATGATTTCAACACAGCAAGTGTGTTTTCACAGACATCTCTCGGAGGCTCA	932
Db	61	AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySer	80
QY	933	TTTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATC	992
Db	81	PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProProGlyGlnIle	100
QY	993	ACCGACCTGAAGGGGAAATTCACGGGGGAGTCTCATTAACTCTGACTTGACAGCTCCT	1052
Db	101	ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrTriProAlaPro	120
QY	1053	GGGGATGATTATGACCATGGAACACCTCACAGTATATCATTCGAATAAGTACAGTATT	1112
Db	121	GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerile	140
QY	1113	CTTGATCTCAGACAGCAAGTCAATCAATCTCTTCAAGTGAATACACTCTCTCATCCCA	1172
Db	141	LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro	160
QY	1173	AAGGAAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAGAAACATTACTTTTCAAAAT	1232
Db	161	LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn	180
QY	1233	GGCAGACATCTTTTCATTGCTATTTCAGGCTGTTGATAAGTCTGATCTGAAATCAGAAATA	1292
Db	181	GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle	200
QY	1293	TCCAACTTGCAGAGTATCTTTGTTTATCTTCCACAGACTCCCGCAGAGACACCTAGT	1352
Db	201	SerAsnIleAlaArgValSerLeuPheIleProProGlnThrProProGluThrProSer	220
QY	1353	CTGTGATGAACGCTGCTCTCTTGT	1376
Db	221	ProAspGluThrSerAlaProCys	228
RESULT 11			
US-09-193-562D-46			
; Sequence 46, Application US/09193562D			
; Patent No. 6309857			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; FILE REFERENCE: 18617.0052			
; CURRENT APPLICATION NUMBER: US/09/193,562D			
; CURRENT FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 46			



Alignment Scores:	
Pred. No.:	4,616-109
Score:	1198.00
Length:	903
Matches:	253
Percent Similarity:	70.0%
Conservative:	70
Best Local Similarity:	54.88%
Mismatches:	118
Query Match:	39.41%
Indels:	20

DB: 4 Gaps: 9  
US-09-049-696-19 (1-1683) x US-10-055-412B-46 (1-903)  
QY 3 CAAGAGTGGTCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 430 GlnSerGlyValIleIleHisThrValAlaLeuGlyProSerAlaAlaLysLeuGlu 449  
QY 63 GAGCTGTCACAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGCAAT 122  
Db 450 ThrLeuSerAspMetThrGlyGlyHisArgPheTyrAlaAsnLysAspIle-----Asn 467  
QY 123 GGCCTCATTGATGCTTTGGGGCCCTTCATCAGCAAAATGAGCTGCTCTCAGCGCTCC 182  
Db 468 GlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySerIleThrGlnGlnThr 487  
QY 183 ATCCAGCTTGAGAGTAAGGGATTACCTCCAGAACAGCCAGTGGATGAATGGCAGCAGTG 242  
Db 488 IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTyrValAsnGlyThrVal 507  
QY 243 ATCCTGGACAGCAGCGTGGGAAAGACACTTTGTTTCTTATCCTGAGCAACGAGCCT 302  
Db 508 ProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThrIleLysLys 527  
QY 303 CCCAAATCCTCTCTGGGATCCAGTGGACAG-----AAGCAAGTGGCTTGTAGTG 356  
Db 528 ProGluIleLeuLeuGlnAspProLysGlyLysLysTyrLysThrSerAspPheLysGlu 547  
QY 357 GACAAA---AACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGTTGGCACT 413  
Db 548 AspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGluThrGlyThr 567  
QY 414 TGGAAATACAGTCTG-----CAAGCAAGCTCACAACTGACCTGACCTGCTGACG 464  
Db 568 TrpThrTyrSerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrValThrValThr 587  
QY 465 TCCCTGGTCCAAATGCTACCTGCTCCAAATACAGTCACTCCAAACGAAACAGGAC 524  
Db 588 ThrArgAlaArgSerProThrThrProProValThrAlaThrAlaHisMetAsnGlnAsn 607  
QY 525 ACCCAAAATTCGCCAGCCTCTGGTAGTTATGCAAAATATTCGCCAAGGAGCCTCCCA 584  
Db 608 ThrAlaHisTyrProSerProValIleValTyrAlaGlnValSerGlnGlyPheLeuPro 627  
QY 585 ATTCTCAGGCCAGTCTCAGCCCTGATGATGATCAATCAATGGAATGGAAGAAACAGTACCTG 644  
Db 628 ValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 647  
QY 645 GAACACTGATAATGAGCGGTGCTGATGCTACTAAGGATGACGGTCTCTACTCAAGG 704  
Db 648 GluLeuTrpAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 667  
QY 705 TATTTCAACAATATGACACAGATGATAGTGTAAAGTGGCGGCTCTGGGAGGA 764  
Db 668 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValHisAlaGluAlaArg 687  
QY 765 GTTAACGCGCCAGAGAGGAGTGTATCCCGACAGAGTGGACCATGTACATACCTGGC 824  
Db 688 AsnAsnThrAlaArgLeuSerLeuArgGlnProGlnAsnLysAlaLeuTyrIleProGly 707  
QY 825 TGGATTGAGATGATGAATACAAATGGAATCCCAAGACCTGAAATTAATTAAGGATGAT 884  
Db 708 TyrIleGluAsnGlyLysIleIleLeuAsnProProArgProGluVal---LysAspAsp 726  
QY 885 GTTCAACACAAAGCAAGTG---TGTTTACAGCAACATCTCGGAGGCTCATTTGGGCT 941  
Db 727 LeuAlaLysAlaGluIleGluAspPheSerArgLeuThrSerGlyGlySerPheThrVal 746  
QY 942 TCTGATGTCCTCAATGCTCCCATCCTGATCTCTCCACCTGGCCAAATCACCAGCCTG 1001  
Db 747 SerGlyAlaProProGlyAsnHisProSerValLeuProProAsnLysIleThrAspLeu 766  
QY 1002 AAGGCG-----GAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCT 1052

Db 767 GluAlaLysPheLysGluAspHis-----IleGlnLeuSerTrpThrAlaPro 782  
QY 1053 GGGGATGATTATGACCATGGAACAGCTCACAGTATATATTCGTAATAAGTACAAGTATT 1112  
Db 783 AlaAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSerPhe 802  
QY 1113 CTTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATACTACTGCTCTCATCCCA 1172  
Db 803 LeuAspLeuGlnLysAspPheAspAlaThrLeuValAsnThrSerSerLeuLysPro 822  
QY 1173 AAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATTACTTTGAAAT 1232  
Db 823 LysGluAlaGlySerAspGluAsnPheGluPheLysProGluProPheArgIleGluAsn 842  
QY 1233 GGCACAGATCTTTTCATTGCTTATTCAGGCTGTTGATAGGTCGATCTCGAATCAGAAATA 1292  
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; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
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; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
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; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Bos taurus  
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Pred. No.:

Score: 1147.00 Matches: 242  
Percent Similarity: 68.76% Conservative: 75  
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Query Match: 37.73% Indels: 20  
DB: 4 Gaps: 9

US-09-049-696-19 (1-1583) x US-09-623-624-18 (1-903)

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QY 183 ATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGCTGGATGAATGGCACAGTG 242  
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QY 303 CCCAAATCCCTTCTCTGGATCCCACTGGACAG-----AAGCAGGTGGCTTGTAGTG 356  
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QY 357 GACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 413  
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QY 645 GAACTACTGATTAATGACAGAGGTGCTGATGCTACTAAGGATACGGTGTCTACTCAAGG 704  
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Db 708 TyrIleGluAsnGlyLysIleIleLeuAsnProProArgProGluVal---LysAspAsp 726  
QY 885 GTTCAACACAAAGCAAGTG---TGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGGCT 941  
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QY 942 TCTGAATGCCAAATGCTCCCATCTCCATCTCTTCCACACTGCTCCCAACTGCCAAATCACCGACCTG 1001

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Pred. No.: 4,9e-104 Length: 903
Score: 1147.00 Matches: 242
Percent Similarity: 68.76% Conservative: 75
Best Local Similarity: 52.49% Mismatches: 124
Query Match: 37.73% Indels: 20
DB: 4 Gaps: 9

US-09-049-696-19 (1-1683) x US-10-270-595-18 (1-903)
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Db 430 GlnSerGlyValIleHisThrIleAlaLeuGlyProSerAlaAlaLysGluLeuGlu 449
QY 63 GAGCTGTCCAAATGACAGAGAGTTTACAGACATATGCTTCAGATCAAGTTCAGACAAAT 122
Db 450 ThrLeuSerAspMetThrGlyGlyHisArgPheThrAlaAsnLysAspPile-----Asn 467
QY 123 GGCCTCATGTATGCTTTGGGGCCCTTTCATCAGGAATGGAGCTCTCTCAGCGCTCC 182
Db 468 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnThr 487
QY 183 ATCCAGCTTGACAGTAAGGATTAACCTCCAGAACAGCCAGTGTGATGAATGGCAGAGTG 242
Db 488 IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTrpValAsnGlyThrVal 507
QY 243 ATCTGGCAGCAGCAGCGTGGGAAGACACTTTGTTCTTATCACCCTGGACAGCGAGCT 302
Db 508 ProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThrIleLysLys 527
QY 303 CCCCAATCTCTCTCGGATCCAGTGACAG-----AAGCAAGGTGGCTTTGTAGTG 356
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QY 357 GACAAA---AACACCAAAATGCCCTACCTCCAAATCCAGGCAATGCTAAGTTGGCACT 413
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QY 414 TCGAATACAGCTG-----CAAGCAAGCTCACAACTGACCCCTGCTGCTGACG 464
Db 568 TrpThrTySerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrValThrValThr 587
QY 465 TCCCGTGGCTCAATGCTACCTGCCCTCCAAATACAGTGCATCTCCAAACGAAACAGAGAC 524
Db 588 ThrArgAlaArgSerProThrThrProProValThrAlaThrAlaHisMetSerGlnAsn 607
QY 525 ACCAGCAAAATCCAGCCCTCTGGTAGTTATGCAAAATATTCGCCAAGAGAGCTCCCA 584
Db 608 ThrAlaHisTyProSerProValIleValTyrAlaGlnValSerGlnGlyPheLeuPro 627
QY 585 ATCTCAGGCGCAGTGTACAGCCCTGATTGATCAGTGAATGAGTGAAGAAACAGTTACCTTG 644
Db 628 ValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 647
QY 645 GAATCTACTGGATAATGGAGCAGTGTGCTGCTACTAAGCATGACGCTGTCTACTCAAGG 704
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QY 705 TATTTCACAACTTATGACACGAATGTGTAGATACAGTGTAAAGTGGCGGCTCTGGAGGA 764
Db 668 TyrPheThrAspTyrArgGlyAsnGlyArgTyrSerLeuLysValHisAlaGluAlaArg 687
QY 765 GTTAAACGACCGCAGGAGAGTATACCCACAGAGTGGAGCATGTATACATACCTGGC 824
Db 688 AsnAsnThrAlaArgLeuSerLeuArgGlnProGlnAsnLysAlaLeuTyIleProGly 707
QY 825 TGGATTGCAATGATGAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGAT 884
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; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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## ALIGNMENTS

## RESULT 1

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US-10-106-698-6388
; Sequence 6388, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6388
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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3	2521	82.9	914	9	US-09-922-217-1066	Sequence 1066, Ap
4	2521	82.9	914	9	US-09-833-263-1066	Sequence 1066, Ap
5	2521	82.9	914	9	US-09-981-353-192	Sequence 192, App
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9	2521	82.9	914	14	US-10-235-994-26	Sequence 26, Appli
10	2521	82.9	914	14	US-10-060-255-42	Sequence 42, Appli
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13	2518	82.3	914	14	US-10-055-412B-28	Sequence 28, Appl
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19	1482	48.8	919	9	US-09-989-723-379	Sequence 379, App
20	1482	48.8	919	9	US-09-989-727-379	Sequence 379, App
21	1482	48.8	919	9	US-09-989-727-379	Sequence 379, App
22	1482	48.8	919	9	US-09-989-731-379	Sequence 379, App
23	1482	48.8	919	9	US-09-989-732-379	Sequence 379, App
24	1482	48.8	919	9	US-09-991-073-379	Sequence 379, App
25	1482	48.8	919	9	US-09-990-442-379	Sequence 379, App
26	1482	48.8	919	9	US-09-991-163-379	Sequence 379, App
27	1482	48.8	919	9	US-09-993-604-379	Sequence 379, App
28	1482	48.8	919	9	US-09-990-456-379	Sequence 379, App
29	1482	48.8	919	9	US-09-989-721-379	Sequence 379, App
30	1482	48.8	919	9	US-09-992-598-379	Sequence 379, App
31	1482	48.8	919	9	US-09-989-293A-379	Sequence 379, App
32	1482	48.8	919	9	US-09-989-735-379	Sequence 379, App
33	1482	48.8	919	9	US-09-990-444-379	Sequence 379, App
34	1482	48.8	919	9	US-09-991-181-379	Sequence 379, App
35	1482	48.8	919	9	US-09-990-436-379	Sequence 379, App
36	1482	48.8	919	9	US-09-993-687-379	Sequence 379, App
37	1482	48.8	919	10	US-09-989-734-379	Sequence 379, App
38	1482	48.8	919	10	US-09-957-653-379	Sequence 379, App
39	1482	48.8	919	10	US-09-989-724-379	Sequence 379, App
40	1482	48.8	919	10	US-09-990-441-379	Sequence 379, App
41	1482	48.8	919	10	US-09-993-667-379	Sequence 379, App
42	1482	48.8	919	10	US-09-997-428-379	Sequence 379, App
43	1482	48.8	919	10	US-09-997-666-379	Sequence 379, App
44	1482	48.8	919	10		
45	1482	48.8	919	10		

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; NAME/KEY: MISC FEATURE
; LOCATION: (14)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-6388

Alignment Scores:
Pred. No.: 6,27e-220 Length: 869
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-106-698-6388 (1-869)
QY 3 CAAGTGGTGCATCATCATCACAGTGGCTTTGGGGCCCTCTCGAGCTCAAGAACTAGAG 62
DB GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeu 401
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122
DB GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 421
QY 123 GGCCTCATGCTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC 182
DB GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 441
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCAGTG 242
DB IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTyrMetAsnGlyThrVal 461
QY 243 ATCTGGGACAGACCGTGGGAAGACACTTTGTTTCTTATCACTGGACAAACGAGCCT 302
DB IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTyrThrGlnPro 481
QY 303 CCCCAATCCTTCTCTGGATCCAGTGCAGACAGCAAGAGTGGCTTCTAGTGGACAAA 362
DB ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 501
QY 363 AACACCAATGGCTTACCTCCAAATCCAGGAGGCTTAAAGTGGCAGCTTGGAAATAC 422
DB AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTyrLys 521
QY 423 AGTCTGCAAGAGCTCAAAACCTTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 482
DB SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 541
QY 483 ACCCTGCTCCAAATTCAGTACGCTTCCAAACCAAGACACACCAAGCAATTCCTCCAGC 542
DB ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 561
QY 543 CCTCTGTAGTTATGCAATATTCGCCAAGGAGCTCCCAATTCCTCAGGCGCAGTGTC 602
DB ProLeuValValTyrAlaAlaIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 581
QY 562 ACAGCCCTGATGAATCAGTGAATGAAACAGTTACCTTGGAACTACTGGATAATGGA 662
DB ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 601
QY 663 GCAGGTGCTATGCTACTAGGATGAGGTGCTTACTCAAGGTATTTTCACAACTTATGAC 722
DB AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 621
QY 723 ACAGTGGTATAGATACAGTGTAAAGTGGCGGCTCTGGAGAGGTTAACGAGCCAGACGG 782
DB ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 641
QY 783 AGATGTATACCCAGAGAGTGGAGACTGTACATCTGCTGGATGAGATGATGAA 842
DB ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyThrIleGluAsnGlu 661
QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTTCAACAACAGCAGTG 902
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RESULT 2

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US-09-823-356-8
; Sequence 8, Application US/09823356
; Patent No. US20010025098A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Kaser, Matthew R.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS
; FILE REFERENCE: EP-0489-1 CON
; CURRENT APPLICATION NUMBER: US/09/823,356
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/039,307
; PRIOR FILING DATE: 1998 March 13
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-8
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662 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 681
QY 903 TGTTCAGCAGACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTCCC 962
DB CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 701
QY 963 ATACCTGATCTCTTCCACCTGGCCAAATCACCCAGCTGAAGCGGGAATTCACGGGGC 1022
DB IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 721
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATATGACCATGGACAGCTCAC 1082
DB SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 741
QY 1083 AAGTATATCATTTGAATAAGTACAAATCTTCTGATCTCAGACAGCAAGTTCAATGAATCT 1142
DB LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 761
QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCAAAGAGCAACTCTTGAGGAAGTCTTTTGG 1202
DB LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 781
QY 1203 TTTAAACAGAAAACATTAATCTTTTGAATATGCGACAGATCTTTTCATGCTATTTCAGGCT 1262
DB PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 801
QY 1263 GTTGATAGGTGCTGATCTGAATATCAGAAATATCCAAATATGCGACAGTATCTTTGTTATT 1322
DB ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 821
QY 1323 CTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACCTCTGCTCTGCTCTTAAT 1382
DB ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 841
QY 1383 ATTCATATCAACAGACACCATCTCTGGCATTTCATTTTAAATATATGTGAAGTGATA 1442
DB 842 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetIrpLysTrpIle 861
QY 1443 CGAGAACTGCAGCTGTCATAGCC 1466
DB 862 GlyGluLeuGlnLeuSerIleAla 869
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Alignment Scores:  
 Pred. No.: 6.39e-220 Length: 914  
 Score: 2521.00 Matches: 488  
 Percent Similarity: 100.00% Conservatives: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 82.93% Indels: 0  
 DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-823-356-8 (1-914)

QY 3 CAAAGTGGTCCCATCATCCACAGAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
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 Db GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446

QY 63 GAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGACAAT 122  
 |||||  
 Db GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466

QY 123 GGCCTCATGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCC 182  
 |||||  
 Db GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

QY 183 ATCCAGCTTGAGAGTAAGGATTAACTCCAGAACAGCCAGTGGATGAATGCCACAGTC 242  
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 Db IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506

QY 243 ATCGTGGACAGACCCGCGAAAGGACACTTTGTTTCTTATCAGCTGGACAGCGCT 302  
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 Db IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCAAATCTCTCTGGGATCCAGTGACAGAGCAAGTGGCTTTCTAGTGACAAA 362  
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QY 363 AACACCAATGGCTACCTCAAATCCAGGATGCTAAGTTGGCACTTGGAAATAC 422  
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QY 483 ACCCTGCTCCCAATACAGTGACTTCCAAAACGAAACAGACACCAAGCAAAATCCCCCAGC 542  
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QY 543 CCTCTGGTAGTTATGCAATATTCGCCAGAGCTCCCAATTCCTCAGGCCAGTGC 602  
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QY 663 GCAGTGTGTATGCTACTAAGATGACGGTGTCTACTCAAGTATTTCCAACTTATCAC 722  
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 Db ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686

QY 783 AGAGTGATACCCACAGAGTGGAGCACTGTACATACCTGCTGCTGATGAGAATGAGAA 842  
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 1263 GTTGATAAGTCTGATCGAATCAGAAATCAGAAATATCCAACTGCGACGATCTTTGTTTAT 1322  
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 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 3  
 US-09-922-217-1066  
 ; Sequence 1066, Application US/09922217  
 ; Patent No. US20020076414A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Iodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yuqiu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922.217  
 ; NUMBER OF SEQ ID NOS: 1124  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 1066  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-922-217-1066

Alignment Scores:  
 Pred. No.: 6.39e-220 Length: 914  
 Score: 2521.00 Matches: 488  
 Percent Similarity: 100.00% Conservatives: 0  
 Best Local Similarity: 100.00% Mismatches: 0

Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0  
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DB GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
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QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGGCAGATG 242  
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QY 243 ATCTGGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGGACAAACGAGCT 302  
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DB CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
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QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCCTGGGAGTATTAAGACCATGGAACTGAC 1082  
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QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTGTATCTCAGACAGCAAGTTCAATGAATCT 1142  
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RESULT 4  
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; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066  
Alignment Scores:  
Pred. No.: 6,39e-220 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0  
US-09-049-696-19 (1-1683) x US-09-833-263-1066 (1-914)  
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DB GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAAATCACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122  
DB GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATGTATGCTTTGGGGCCCTTTCATCAGAAATGAGCTGTCTCTCAGGCTCC 1082

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Db      467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY      183 ATCCAGCTTCAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 242
Db      487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY      243 ATCGTGGACAGCACCCCTGGGAAGGACACTTTCTTATACCTCCGACCAACGCGACCT 302
Db      507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
QY      303 CCCAAATCTCTCTGGGATCCAGTGACAGAACAGGTGGCTTTGTAGTGGACAAA 362
Db      527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
QY      363 AACACCAAAATGGCTACCTCCAAATCCAGGACGATTCCTAAGTTGGCACTGGAAATAC 422
Db      547 AsnThrLysMetAlaTrpLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTrp 566
QY      423 AGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAGTCCCGTCCGCTCCAAATGCT 482
Db      567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586
QY      483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGCACACCAAAATCCCCAGC 542
Db      587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
QY      543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCTCCCAATCTCAGGCGCAGTGTC 602
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QY      603 ACAGCCCTGATTGAATGAGTGAATGAAACAGTTACCTCGAACTACGTGATATGCA 662
Db      627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646
QY      663 GCAGTGTCTGCTACTAAGATGACGGTGCTACTCAAGTATTTCACAACTTATGAC 722
Db      647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY      723 ACGAATGTTAGATACAGTGAATGAAAGTGGGGCTCTGGAGGAGTTAACGCACCCAGCGG 782
Db      667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY      783 AGAGTGATACCCACAGAGTGGACACTGTACATACCTGGCTGGATTCAGAAATCATGA 842
Db      687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY      843 ATACAAATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGT 902
Db      707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY      903 TGTTTCACGACAAATCTCGGAGGCTCATTGTGGCTTCTGATGTCCTCCAAATGCTCC 962
Db      727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY      963 ATACCTGTATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGGC 1022
Db      747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY      1023 AGTCTCATTAATCTGACCTGGACAGCTCCTGGGATGATTATGACCATGGAACAGCTCAC 1082
Db      767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786
QY      1083 AAGTATATCATTGCAATAGTACAGTATTCTTGATCTCAGACACAAGTTCATGAATCT 1142
Db      787 LysTrpIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY      1143 CTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCACTCTGAGGAAGTCTTTTGG 1202
Db      807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 826
QY      1203 TTTAAACGAGAAACATTTACTTTTGAATAATGGCAGACATCTTTTCATTCGCTATTTCAGGCT 1262

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Db      827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY      1263 GTTGATAAGTTCGATCTGAAATCAGAAATATCCACATTGCACAGATATCTTTGTTTATT 1322
Db      847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY      1323 CTCCACACACATCCCGCACAGACACCTAGTCTCTGATGAACGTCCTCTCTCTCTTAAT 1382
Db      867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY      1383 ATTCATATCAACAGACACCATTCCTGCATTTCACATTTTAAAAATTATGTGGAGTGGATA 1442
Db      887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetThrLysTrpIle 906
QY      1443 GGAGAACTCCAGCTGTCAATAGCC 1466
Db      907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 5
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

Alignment Scores:
Pred. No.:          6,39e-220          Length:          914
Score:              2521.00           Matches:          488
Percent Similarity: 100.00%           Conservative:      0
Best local Similarity: 100.00%         Mismatches:       0
Query Match:        82.93%             Indels:           0
DB:                 9                  Gaps:            0

US-09-049-696-19 (1-1683) x US-09-981-353-192 (1-914)
QY      3   CAAAGTGTGCATCATCCACACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
Db      427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY      63   GAGCTGTCCAAATACACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACAT 122
Db      447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY      123 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGAGTGTCTCTCAGCGCTCC 182
Db      467 GlyLeuLeuAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY      183 ATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACCCAGTGGATGAATGGCACAGTG 242
Db      487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY      243 ATCCGTGCACAGCACCCCTGGGAAGGACACTTTGTTCTTATCCTCCAGCAACCCAGCCT 302
Db      507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
QY      303 CCCCAAAATCTCTCTCGGATCCCGAGTGACAGAGCAAGTGGCTTTGTAGTGGACAAA 362
Db      527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546

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QY 543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCGCTCCCAATTTCTCAGGGCCAGTGTG 602  
 Db |||||||  
 QY 607 ProLeuValValTyAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
 Db |||||||  
 QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACACAGTTACTTGGAACTACTGCGATAATGGA 662  
 Db |||||||  
 QY 627 ThrAlaLeuIleGluSerValAsnGlyIleThrValThrLeuGluLeuLeuAspAsnGly 646  
 Db |||||||  
 QY 663 CGAGTGTCTGATCTACTAAGATGACCGGTGCTACTCAAGTATTTCAACTTATGAC 722  
 Db |||||||  
 QY 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTySerArgTyPheThrThrTyArg 666  
 Db |||||||  
 QY 723 ACGAATGTAGATACAGTGAATGCGGGCTCTGGGAGGAGTTAAACGACGCCAGCGG 782  
 Db |||||||  
 QY 667 ThrAsnGlyArgTySerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686  
 Db |||||||  
 QY 783 AGAGTGATACCCAGCAGAGTGGACACTGTACATACCTGGCTGGATTGAGAATGATGAA 842  
 Db |||||||  
 QY 687 ArgValIleProGlnGlnSerGlyAlaLeuTyIleProGlyTyIleGluAsnAspGlu 706  
 Db |||||||  
 QY 843 ATACAAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTG 902  
 Db |||||||  
 QY 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal 726  
 Db |||||||  
 QY 903 TGTTCACGACAGACATCTCGGGAGGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCCC 962  
 Db |||||||  
 QY 727 CysPheSerArgThrSerSerGlyIleSerPheValAlaSerAspValProAsnAlaPro 746  
 Db |||||||  
 QY 963 ATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAAGCGGAAATTCAGGGGGC 1022  
 Db |||||||  
 QY 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
 Db |||||||  
 QY 1023 AGTCTCATATCTGACTTGACAGCTCTCTGGGATGATTTAGCATGGAACAGCTCAC 1082  
 Db |||||||  
 QY 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyArgHisGlyThrAlaHis 786  
 Db |||||||  
 QY 1083 AAGTATATCATTCGAATGAAGTACAGTATCTTGATCTCAGACAGCAAGTTCAATCAATCT 1142  
 Db |||||||  
 QY 787 LysTyIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
 Db |||||||  
 QY 1143 CTTCAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTG 1202  
 Db |||||||  
 QY 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 826  
 Db |||||||  
 QY 1203 TTTAAACAGAAACATTACTTTTGAATGGCACAGATCTTTTCATGCTATTACAGCT 1262  
 Db |||||||  
 QY 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
 Db |||||||  
 QY 1263 GTTGATAGGTGCGATCTCGAAATCAGAAATATCCACATTGCACAGTATCTTTGTTATT 1322  
 Db |||||||  
 QY 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
 Db |||||||  
 QY 1323 CCTCCACAGACTCCGCCAGACACACTAGTCTGATGAAAGCTGTGCTCTTCCTTAAT 1382  
 Db |||||||  
 QY 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
 Db |||||||  
 QY 1383 ATTCAATCAACAGACACCAATTCCTGGCATTCACATTTTAAAAATTAATGGAAGTGATA 1442  
 Db |||||||  
 QY 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
 Db |||||||  
 QY 1443 GGAGAAGTGCAGCTCTCAATAGCC 1466  
 Db |||||||  
 QY 907 GlyGluLeuGlnLeuSerIleAla 914  
 Db |||||||

## RESULT 7

US-10-025-380-1066  
 ; Sequence 1066, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick Thomas S.  
 ; APPLICANT: Carter, Barrick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19  
 ; NUMBER OF SEQ ID NOS: 1129  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1066  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-025-380-1066

## Alignment Scores:

Pred. No.: 6,39e-220 Length: 914  
 Score: 2521.00 Matches: 488  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 82.93% Indels: 0  
 DB: 13 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-025-380-1066 (1-914)

QY 3 CAAAGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAGAACTAGAG 62  
 Db |||||||  
 QY 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
 Db |||||||  
 QY 63 GAGCTGTCCAAAATCAGCAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
 Db |||||||  
 QY 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 466  
 Db |||||||  
 QY 123 GGCCTCATATGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGCTGTCTCTCAGCGCTCC 182  
 Db |||||||  
 QY 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
 Db |||||||  
 QY 183 ATCCAGCTTGAGAGTAAAGGATTAAACCTCCAGAACAGCCAGTCGATCAATGGCACAGTG 242  
 Db |||||||  
 QY 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
 Db |||||||  
 QY 243 ATCGTGACAGCAGCACCGTGGGAAAGGACACTTTTGTTCCTTATCAGCTGGACAAACGAGCCT 302  
 Db |||||||  
 QY 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
 Db |||||||  
 QY 303 CCCCAATCTCTCTCGGATCCCGATGGACAGAAAGAGGTGGCTTTGTAGTGACAAA 362  
 Db |||||||  
 QY 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546  
 Db |||||||  
 QY 363 AACACCAAAATGGCTACCTCCAAATCCAGGCATTCAGAGTTGGCAGCTTGGAAATAC 422  
 Db |||||||  
 QY 547 AsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTrp 566  
 Db |||||||  
 QY 423 AGTCTGCAAGCAGACTCACAAACCTTGACCTGTGACTGTTCAGCTCCCGTGGGTCCCAATGCT 482  
 Db |||||||  
 QY 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586  
 Db |||||||  
 QY 483 ACCCTGCTCCAATTACAGTGACTTCCAAACGAAACAGGACACCCAGCAAAATTCGCCAGC 542  
 Db |||||||  
 QY 587 ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
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 QY 543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCGCTCCCAATTTCTCAGGGCCAGTGTG 602  
 Db |||||||



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; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 6,396-220 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-270-595-6 (1-914)
QY 3 CAAAGTGTGGCATTATCCACACAGTCGCTTTGGGGCCCTCTGACGCTCAAGACTAGAG 62
Db 427 GlnSerGlyAlaIleIleHieThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122
Db 447 GluLeuSerLysMetThrGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCCCTCCAGAACAGCCAGTGGATGAATGGCAGCTG 242
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY 243 ATCTGTGACAGCAGCGTGGAAAGACACTTTGTTTCTTATCCTCTGACCAACGAGCT 302
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
QY 303 CCCCAATCCTTCTCTGGGATCCAGTGCAGAGCAAGTGGCTTTGTAGTGGACAAA 362
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
QY 363 AACACAAAATGGCTACTCCAAATCCAGGCAATGTCTAAGTTGGCACTTGGAAATAC 422
Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566
QY 423 AGCTGTGACAGCACTCAAAACCTTACCTGACTGTACCTGCTCAGCTCCGCTCCCAATGCT 482
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586
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## RESULT 8

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US-10-270-595-6
; Sequence 6, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
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QY 483 ACCTGCTCCCAATTACAGTACTCCAAAACGAACGACACCAAGCAATTCACAGC 542
Db      |||
QY 587 ThrLeuProPheThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
Db      |||
QY 543 CCTCTGGTATTATCAATATTCGCCAAGAGCCTCCCAATTCACAGGCGCAGTGC 602
Db      |||
QY 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACACAGTACCTTGAACCTACTGATATGGA 662
Db      |||
QY 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuAspAsnGly 646
QY 663 GAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTCACAACTTATGAC 722
Db      |||
QY 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGATGTTAGTACAGTCTAAAGTGGGGCTCTGGAGGAGTAAACGACCCAGACGG 782
Db      |||
QY 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCACGACAGTGGACACTGTACATACCTGGCTGGATTGAGATGATGA 842
Db      |||
QY 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACATGGAATCCACCAAGCCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTG 902
Db      |||
QY 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY 903 TGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTCCC 962
Db      |||
QY 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACCTGATCTCTCCACCTGCGCAATCAACGACCTGAAGCGGCAATTCACGGGGC 1022
Db      |||
QY 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTATGACCATCGAACAGCTAC 1082
Db      |||
QY 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786
QY 1083 AAGTATATCATTCGAATAGTACAGTATCTTGTATCTCAGACAGCAAGTTCATGATCT 1142
Db      |||
QY 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCACTCTGAGGAGTCTTTTGTG 1202
Db      |||
QY 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
QY 1203 TTTAAACAGAAACATTACTTTTGAATGSCACAGATCTTTTTCATGCTATTTCAGGCT 1262
Db      |||
QY 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY 1263 GTTCGATAGGTCGATCTGAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTATT 1322
Db      |||
QY 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 CCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAAGCTCTGCTCTGCTGCTTAAT 1382
Db      |||
QY 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY 1383 ATTCAATFCAACAGACCATTCCTGGCATTCACATTTTAAAAATATATGGAAGTGGATA 1442
Db      |||
QY 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
QY 1443 GGAGNACTGCAGCTGTCAATAGCC 1466
Db      |||
QY 907 GlyGluLeuGlnLeuSerIleAla 914

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## RESULT 9

US-10-235-994-26

; Sequence 26, Application US/10235994

; Publication No. US20030101002A1

; GENERAL INFORMATION:

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; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
; US-10-235-994-26

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## Alignment Scores:

Pred. No.:	6,39e-220	Length:	914
Score:	2521.00	Matches:	488
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	82.93%	Indels:	0
DB:	14	Gaps:	0

US-09-049-696-19 (1-1683) x US-10-235-994-26 (1-914)

QY	3	CAAAGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGCACTAGAG	62
Db	427	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu	446
QY	63	GAGCTGTCCAAATACAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT	122
Db	447	GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn	466
QY	123	GGCTCATGTATGCTTTTGGGGCCCTTTTCATCAGGAATGAGCTGTCTCTCAGGCTCC	182
Db	467	GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer	486
QY	183	ATCCAGCTGTGAGTAAGGGATTAAACCTCCAGACACCCAGTGGATGAATGGCACAGTG	242
Db	487	IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal	506
QY	243	ATCGTGGACAGACCGTCGGGAAAGACACTTTGTTTCTTATCACCTGGACACACGAGCT	302
Db	507	IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro	526
QY	303	CCCCAATCCTCTCTGGATCCAGTGGACAGAGCAGAGTGGCTTTGTAGTGACAAA	362
Db	527	ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys	546
QY	363	AACACCAAAATGGCTACTCCAAATCCAGGCATTCCTAAGGTGGCAGTGGAAATAC	422
Db	547	AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr	566
QY	423	AGTCTGCAAGAACGCTCACAAACCTTGACCTGTACTGTTCAGTCCCGCTGCCAATGCT	482
Db	567	SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla	586
QY	483	ACCTGCTCCTCAATTCAGTGACTTCCAAACGAAACAGGACACCAAGCAATTCCTCCAGC	542
Db	587	ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer	606
QY	543	CCTCTGTGTAGTTTATGCAATATTCGCCAAGGAGCCTCCCAATTCCTCAGGCGCAGTGC	602
Db	607	ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal	626
QY	603	ACAGCCCTGATTGAATCAGTGAATGGAACACAGTTACCTTGGAACTACTGGATAATGGA	662
Db	627	ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly	646
QY	663	GCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTCACAACTTATGAC	722

```
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGAATGCTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAAGCAGCCAGACGG 782
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCACAGAGTGGAGCTGTACATCTGGCTGGTGGATTCAGATGATGAA 842
Db 687 ArgValIleProGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACATCGAATCCACCAAGCTCGAATTAATAGGATGATGTTCAACACAGCAAGTG 902
Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY 903 TGTTTTCAGCAGAACATCTCCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCCAAATGCTCC 962
Db 727 CysPheSerArgThrSerSerGlyLysPheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCAGGACCTGAAGCGGGAATTCACGGGGC 1022
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCCTGGGGATGATTATGACCATGGAACAGCTCAC 1082
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspSerTyrAspHisGlyThrAlaHis 786
QY 1083 AAGTATATCATTCGAATAGTACAAGTATTTCTTGATCTCAGACACAAGTTCATGAATCT 1142
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAAGTGAAATCTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGCTCTTTTG 1202
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
QY 1203 TTAAACCAAGAAACATTTTGAATTTGGACAGATCTTTTCAATGCTATTCAGGCT 1262
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY 1263 GTTGATAAGCTCGATCTGAATCAGAAATATCAACATTCGACAGATCTTTTGTATT 1322
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 CTTCCACAGACTCCGCGCAGACAGACCTAGTCTGTATGAACAGTCTCTCTGTCCTAAT 1382
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY 1383 ATTTCATATCAACAGCACCATTCTCGCATTCACATTTTAAATTTATGTGAAGTGGATA 1442
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
QY 1443 GGAAACTGCAGCTGTCATAGCC 1466
Db 907 GlyGluLeuGlnLeuSerIleAla 914
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## RESULT 10

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US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: F2042P1
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
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; SEQ ID NO 42
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42
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## Alignment Scores:

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Pred. No.: 6,39e-220 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
Dbs: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-060-255-42 (1-914)

QY 3 CAAAGTGTGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCGAGTCAAGACTAGAG 62
Db 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCTCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY 123 GGCTCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTTCAGAACAGCCAGTGGATGATGACAGTGT 242
Db 487 IleGlnLeuGlnSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY 243 ATCTGGGACAGCACCGCTGGGAAGGACACTTTGTTTCTTATCCTCGGACACAGCGACT 302
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
QY 303 CCCCATAATCCTTCTCTGGGATCCCGAGTGACAGAAAGCAAGTGGCTTTGTAGTGGACAAA 362
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
QY 363 AACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTGGCACTTGGGAATAC 422
Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566
QY 423 AGTCTGACAGCAGCTCCACACCTTACCCCTGACTGTCCAGCTCCGCTCGCTCCAATGCT 482
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586
QY 483 ACCCTGCTCCCAATTCAGTGACTTCCAAAACGACACAGGACACCAAGAAATTCCTCCAGC 542
Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
QY 543 CTTCTGGTAGTTATGCCAAATATTCGCCAAGAGCCCTCCCAATTTCTCAGGGCCAGTGC 602
Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
QY 603 ACAGCCCTCATTAATCAGTGAATGAAAACAGTTACTTGGAACTTACTGGATAATGGA 662
Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuLeuLeuLeuAspAsnGly 646
QY 663 GCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACACTTATGAC 722
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGAATGCTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAAGCAGCCAGACGG 782
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCACAGAGTGGAGCACTGTATACCTCGCTGGATTCAGATGATGAA 842
Db 687 ArgValIleProGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACATGGAATCCCAAGACCTGAAATTAATGAAGATGATGTTCAACACAGCAAGTGT 902
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Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
QY 903 TGTTCAGAGAACATCTCGGAGGCTCATTTGTGGCTTCGATGTCCTCCAAATGCTCC 962  
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGATCTCTCCACCTGCGCAAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022  
Db 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTGGGAGTATTATGACCATGGAACAGCTCAC 1082  
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspTyrAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGATAGTACAGTATTCTTGATCTCAGACAGAGTTCATGATCT 1142  
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTG 1202  
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 826  
QY 1203 TTAAACGAGAAAACATTAATCTTGAATGGCACAGATCTTTTCATTGCTATTTCAGGCT 1262  
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGATAAGTCTGATCTGAAATCAGAAATATCCACATGTCAGGATATCTTTGTTATT 1322  
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAACTGCTCTCTTGTCTTAAT 1382  
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTCAATACAGACACCATCTCTGGCATCAATTTAAATATATGGAAGTGGATA 1442  
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGAACTGCAGCTCTCAATAGCC 1466  
Db 907 GlyGluLeuGlnLeuSerIleAla 914

## RESULT 11

US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No. US2002016871A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:  
Pred. No.: 6,43e-220 Length: 925  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-764-868-635 (1-925)

QY 3 CAAAGTGTGCTATCATCCACAGTCGCTTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62

Db 438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnLeuGlu 457  
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACAA 122  
Db 458 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 477  
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTCTCTCTCAGCGCTCC 182  
Db 478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497  
QY 183 ATCCAGCTTGACAGTAAGGATTAACTCCAGACAGACAGCTGGATGATGATGGCACAGTG 242  
Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517  
QY 243 ATCTGGGACAGCACCGTGGAAAGGACACTTTTGTCTTATCACCTGGGACAAACGAGCCT 302  
Db 518 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 537  
QY 303 CCCAAATCCTTCTCTGGGATCCAGTGGAAGAAGGAGGCTTTGTAGTGGAACA 362  
Db 538 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 557  
QY 363 AACACCAAAATGCGCTACTCCAAATCCAGGATCCAGGCTTGAAGTTGGACATTCGAAATAC 422  
Db 558 AsnThrLysMetAlaIleProGlyIleAlaLysValGlyThrTrpLysTyr 577  
QY 423 AGTCTGCAAGAGCTCAAACTTGACCTGACTGTCCCTCGCTGCTGCTGCTGCTGCTGCTGCT 482  
Db 578 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 597  
QY 483 ACCCTGCTTCCATTTACAGTGACTTCCAAAGCAAGGACCAAGGACCAAGGACCAAGGAC 542  
Db 598 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 617  
QY 543 CTTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCTCCCAATCTCAGGCGCCAGTGC 602  
Db 618 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 637  
QY 603 ACAGCCTGATTGAATCAGTGAATGGAAAAACAGTTACTTGGAACTACTGATGATATCGA 662  
Db 638 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 657  
QY 663 GCAGTGTCTGATGCTATTAAGATGACGCTGCTACTCAAGGTATTTTCACTTATGATGAC 722  
Db 658 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 677  
QY 723 ACGAATGTTAGATACAGTGAAGTAAAGTGGGGCTCTGGGAGGAGTAAAGGAGGAGGAGG 782  
Db 678 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyValAlaAsnAlaAlaArgArg 697  
QY 783 AGAGTGATACCCACAGAGTGGAGCACTGTACATACCTGCTGGATGAGAAATGATCAA 842  
Db 698 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTyrIleGluAsnAspGlu 717  
QY 843 ATCAATGGAAATCCACCAAGACCTGAAATTAATTAAGGATGATGTCACACCAAGCAAGTG 902  
Db 718 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 737  
QY 903 TGTTCAGCAGAACATCTCGGAGGCTCATTTGCTGCTTCTGATGCTCCCAATGCTCCC 962  
Db 738 CysPheSerArgThrSerSerGlyLysPheValAlaSerAspValProAsnAlaPro 757  
QY 963 ATACCTGATCTCTTCCCACTGGCCAAATCACCCACCTGAAGGCGGAAATTCACGGGGC 1022  
Db 758 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 777  
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATGATGATGATGATGATGATGATGAT 1082  
Db 778 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 797  
QY 1083 AAGTATATCATTCGATAGTACAGTATTCTTGTATCTCAGACCAAGTTCATGATCT 1142

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Db 798 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 817
QY 1143 CTTCAAGTGAATACACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTG 1202
Db 818 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 837
QY 1203 TTTAAACAGAAAACATTTACTTTTGAATAATGGCAGAGATCTTTTCATTGCTATTTCAGGCT 1262
Db 838 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 857
QY 1263 GTTGATAAGTGCATCTCAAAATCAGAAATATCCAAATTCACAGATGATCTTTGTTTATT 1322
Db 858 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 877
QY 1323 CTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACCTCTGCTCTTGTCTTAAT 1382
Db 878 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 897
QY 1383 ATTCATATACAGACAGACCACTTCTGCGATTTCACATTTTAAATAATTATGTGAAGTGGATA 1442
Db 898 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 917
QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466
Db 918 GlyGluLeuGlnLeuSerIleAla 925

RESULT 12
US-10-106-698-6248
; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: Patent In Ver. 3.0
; SEQ ID NO 6248
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-6248

Alignment Scores:
Pred. No.: 6,43e-220 Length: 925
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-106-698-6248 (1-925)
QY 3 CAAAGTGGTCCCATCATCCACAGTCGCTTTGGGCGCCCTCTCGAGTCAAGAACTAGAG 62
Db 438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 457
QY 63 GAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGACAAT 122
Db 458 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 477
QY 123 GGCTCATTCATGCTTTTGGGCGCCCTTTCATCAGGAATGAGCTGCTCTCAGCGCTCC 182
Db 478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497
QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242
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Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517
QY 243 ATCGTGGACAGACCGTGGGAAAGAGACACTTTGTTTCTTATCACCCTGACCAACGAGCT 302
Db 518 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 537
QY 303 CCCCAAAATCCCTTCTCTGGGATCCCAAGTGCAGAGCAAGAGTGGCTTTGTAGTCGACAAA 362
Db 538 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys 557
QY 363 AACCAAAAATGGCCCTACCTCCAAATCCAGGCATTGCTAAAGTTGGCACTTTGGAATAAC 422
Db 558 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 577
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACGTCCCGTCGCTCCCAATGCT 482
Db 578 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 597
QY 483 ACCCTGCTCCAAATTCACAGTGAATCCAAAACGAACAGGACACACAGCAAAATCCCCAGC 542
Db 598 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 617
QY 543 CCTCTGGTAGTTTATCCAAATATCCCAAGGAGCTCCCAATTTCTCAGGGCCAGTGC 602
Db 618 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 637
QY 603 ACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTACTCTTGGAAGTACTGGAATATGGA 662
Db 638 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 657
QY 663 CGAGTGTGTGCTGCTACTAAGGATCAGCGTGTCTACTCAAGGTATTTCACAACTTATGAC 722
Db 658 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 677
QY 723 ACGAATGTGTAGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAAACGACCGACGG 782
Db 678 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 697
QY 783 AGAGTGATACCCAGCAGAGTGGAGCTGTATACATCTGCTGGTGGATTCAGATGATGAA 842
Db 698 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 717
QY 843 ATACAATGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACACAGCAAGTG 902
Db 718 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 737
QY 903 TGTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCC 962
Db 738 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 757
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAGCGGAAATTCACGGGGC 1022
Db 758 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluLeuHisGlyGly 777
QY 1023 AGTCTCATTAATCTGACTTGGCAGCTCCTCTGGGATGATTATGACCATGGAACAGCTCAC 1082
Db 778 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspTyrAspHisGlyThrAlaHis 797
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTTGATCTCAGACAGCAAGTTCATGATCT 1142
Db 798 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 817
QY 1143 CTTCAAGTGAATACACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTG 1202
Db 818 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 837
QY 1203 TTTAAACAGAAAACATTTACTTTTGAATAATGGCAGAGATCTTTTCAATGCTATTTCAGCT 1262
Db 838 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 857
QY 1263 GTTGATAAGTGCATCTGAAATCAGAAATATCCAAATTCACAGAGTATCTTTGTTTATT 1322
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Db 858 ValAspLysValAspLeuLysSerGluLeuSerAsnIleAlaArgValSerLeuPheIle 877  
 QY 1323 CTCCACAGACCCGACAGACACCTAGTCTGATGAACGCTCTCTCTGTCCTAAT 1382  
 Db 878 ProProGlnThrProProGlnThrProSerProAspGluThrSerAlaProCysProAsn 897  
 QY 1383 ATTCAATATCAACAGCACCACTTCTGCAATTCACATTTTAAAAATATGTGGAAGTGGATA 1442  
 Db 898 IleHisIleAsnSerThrIleProGlyIleHisIleLeuValIleMetTrpLysThrIle 917  
 QY 1443 GGAGAACTGACGTGTCAATAGCC 1466  
 Db 918 GlyGluLeuGlnLeuSerIleAla 925  
 RESULT 13  
 US-10-055-412B-28  
 ; Sequence 28, Application US/10055412B  
 ; Publication NO. US20030059861A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0058  
 ; CURRENT APPLICATION NUMBER: US/10/055,412B  
 ; CURRENT FILING DATE: 2001-10-29  
 ; PRIOR APPLICATION NUMBER: US/09/193,562  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 28  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-055-412B-28

Alignment Scores:  
 Pred. No.: 1,2e-219 Length: 914  
 Score: 2518.00 Matches: 487  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.80% Mismatches: 0  
 Query Match: 82.83% Indels: 0  
 DB: 14 Gaps: 0  
 US-09-049-696-19 (1-1683) x US-10-055-412B-28 (1-914)  
 QY 3 CAAGTGTGTCATCATCCACAGACGCTGCTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
 Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
 QY 63 GAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCCAGGAAATGAGCTGTCTCAGCGCTCC 182  
 Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
 QY 123 GGCCTCATATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGTCTCAGCGCTCC 182  
 Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
 QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGAACCCAGTGGATGAATGGCACAGTG 242  
 Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
 QY 243 ATCTGGACAGCACCGTGGGAAAGGACACTTGTCTTATCACTGGACAGCAGCGCT 302  
 Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
 QY 303 CCCCAAAATCTCTCTGCGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGGACAAA 362  
 Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys 546  
 QY 363 AACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAATAC 422  
 Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566

QY 423 AGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTACGTCCTCGTCCGTCCTCAATGCT 482  
 Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586  
 QY 483 ACCCTGCTCCCAATTACAGTGAATCCAAAAGCAACAGACACCAAGCAAAATCCCCAGC 542  
 Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
 QY 543 CCTCTGGTAGTTTATGCCAAATATTCGCCAAGGAGCTCCCAATTCCTCAGGGCCAGTGC 602  
 Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
 QY 603 ACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACCTCGAACTACTCGATATATGGA 662  
 Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646  
 QY 663 GCAGGTGCTGATGCTACTAAGGATCAGCGTGTCTACTCAAGTATTTCACACTTATGAC 722  
 Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666  
 QY 723 AGCAATGCTAGATACAGTGTAAAGCTGGGGCTCTGGGAGGAGTTAAACGACGCCAGCGG 782  
 Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686  
 QY 783 AGAGTGATACCCAGCAGAGTGAGCAGCTGTATACCTGGCTGGATTGAGATGATGAA 842  
 Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706  
 QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTG 902  
 Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal 726  
 QY 903 TGTTCACGAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATCTCCC 962  
 Db 727 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 746  
 QY 963 ATACTGTATCTCTCCACCTGGCCAAATCACCGACCTGAAAGGGGAAATTCACGGGGGC 1022  
 Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
 QY 1023 AGTCTCATTAATCTGACTTGACAGCTCTCTGGGATGATTATGACCATGGACACCTCAC 1082  
 Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786  
 QY 1083 AAGTATATCATTCGAATAAGTACAAATCTCTGATCTCAGACACAACTTCAATGAATCT 1142  
 Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
 QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGT 1202  
 Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826  
 QY 1203 TTTAAACAGAAAACATTTACTTTTGAATGGCACAGATCTTTTCATGCTTATTCAGCT 1262  
 Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
 QY 1263 GTTGATAAGGTTCGATCTCGAATCAGAAATATCCAACTTGCACAGTATCTTTGTATT 1322  
 Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
 QY 1323 CTTCCACAGACTCCGCCAGACACCTAGTCTCGATGAAACGCTGCTGCTCTGCTTAAT 1382  
 Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
 QY 1383 ATTCATATCAACAGCACCATCTCTGCGATTCACATTTTAAATATATGTGGAAGTGGATA 1442  
 Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
 QY 1443 GGAGAACTGACGCTGTCAATAGCC 1466  
 Db 907 GlyGluLeuGlnLeuSerIleAla 914

## RESULT 14

US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication No. US20030232037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Bergenhenegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLC1"  
US-10-369-214-133

## Alignment Scores:

Pred. No.: 1-82e-219 Length: 914  
Score: 2516.00 Matches: 487  
Percent Similarity: 99.80% Conservative: 0  
Best Local Similarity: 99.80% Mismatches: 1  
Query Match: 82.76% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-19 (1-1693) x US-10-369-214-133 (1-914)

QY	3	CAAAAGTGTCATCATCACAAGTCGCTTTGGGCGCTCTGCAGCTCAAGACATGAG	62
Db	427	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnLeuGlu	446
QY	63	GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAGATTCAGACAAT	122
Db	447	GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn	466
QY	123	GGCTCATTTGATGCTTTTGGGCGCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC	182
Db	467	GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer	486
QY	183	ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGGATGATGATGCAAGTG	242
Db	487	IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal	506
QY	243	ATCGTGACAGCACCGTGGAAGGACATTTGTTTCTTATCACCTGGACACGACGCT	302
Db	507	IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro	526
QY	303	CCCCAATCTCTTCTGGGATCCAGTGGACAGAACAGGCTGCTTGTAGTGACAAA	362
Db	527	ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys	546
QY	363	AACACAAATGCCCTACCTCCAAATCCCGGATGCTTAAGTTGGCATTGGAATAC	422
Db	547	AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr	566
QY	423	AGTCTGACAGAGCTCACAACTTGACCTGACCTGTCACGTCCTGGTGGTCCAATGCT	482
Db	567	SerLeuGlnAlaSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla	586
QY	483	ACCTGCTCTCAATTCAGTACGCTTCCAAACGAACAGGACACCAAGTATCCCCAGC	542

Db	587	ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer	606
QY	543	CCTCTGCTAGTTTATGCAAAATATTCGCCAAGAGCGCTCCCAATTTCTCAGGSCCAGTGC	602
Db	607	ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal	626
QY	603	ACAGCCCTGATTGAATCAGTGAATGAAAAACAGTTACTTTGGAACTACTGGATAATGA	662
Db	627	ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly	646
QY	663	CGAGTGTGATGCTACTAAGATACCGGTGTCTACTCAAGTATTTCAACTTATGAC	722
Db	647	AlaGlyAlaAspAlaThrLysAspGlyValTyrSerArgTyrPheThrThrTyrAsp	666
QY	723	ACGAATGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTAAACGACCCAGACG	782
Db	667	ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArg	686
QY	783	AGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATTGAGAAATGATGA	842
Db	687	ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu	706
QY	843	ATACAATGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACACAGCAGTG	902
Db	707	IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal	726
QY	903	TGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCC	962
Db	727	CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro	746
QY	963	ATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAAGCGGAAATTCACGGGGC	1022
Db	747	IleProAspLeuPheProGlyGlnIleThrAspLeuAsnAlaGluIleHisGlyGly	766
QY	1023	ACTCTCAATTAATCTGACTGGACAGCTCTCGGGATGATGATGACCATGACAGCTCAC	1082
Db	767	SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis	786
QY	1083	AGTATATCATTCGAATAGTACAAATTTCTTGATCTCAGAGACAAAGTTCAATGAATCT	1142
Db	787	LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer	806
QY	1143	CTTCAAGTGAATACTACTCTCTCATCCCAAGAGCAACCTCTGAGGAAGTCTTTTGG	1202
Db	807	LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu	826
QY	1203	TTTAAACAGAAACAACTACTTTTGAATGGCAGATCTTTTCACTTCTTATCAGGCT	1262
Db	827	PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla	846
QY	1263	GTTGATAAGTCTGATCGAATCAGAAATATCCACATTGCACAGTATCTTTGTTTATT	1322
Db	847	ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle	866
QY	1323	CCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAAACCGTCTCTCTTGTCTAAT	1382
Db	867	ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn	886
QY	1383	ATTCAATCAACAGCACCATTTCTGTCATTCACATTTTAAATTTATGTTGAAGTGGATA	1442
Db	887	IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle	906
QY	1443	GGAGAACTGCAGTGTCAATAGCC 1466	
Db	907	GlyGluLeuGlnLeuSerIleAla 914	

## RESULT 15

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides



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; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO: 4628
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-4628

Alignment Scores:
Pred. No.: 1,83e-219 Length: 552
Score: 2515.00 Matches: 487
Percent Similarity: 99.80% Conservative: 0
Best Local Similarity: 99.80% Mismatches: 1
Query Match: 82.73% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-19 (1-1693) x US-10-106-698-4628 (1-552)

QY 3 CAAAGTGGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
DB 65 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 84
QY 63 GAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACAAAT 122
DB 85 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 104
QY 123 GGCCTCATGTGCTTTGGGGCCCTTTCATCAGGAATGAGAGTGTCTCAGCGCTCC 182
DB 105 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 124
QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGACAGCCAGTGTGATGAATGGCACAGTG 242
DB 125 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 144
QY 243 ATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACACAGCGCT 302
DB 145 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 164
QY 303 CCCCAATCCTTCTCTGGATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGACAAA 362
DB 165 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 184
QY 363 AACACCAAATGGCTACTCCAAATCCAGGCATGCTAGCTCCCGTCCGCTCCAAATGCT 422
DB 185 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 204
QY 423 AGTCTGAAGCAAGCTCACAACCTTGACCTGTCACTGCTCCGCTCCGCTCCAAATGCT 482
DB 205 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 224
QY 483 ACCCTGCTCCAAATACAGTGAATTCGCAAGGACACAGGACACAGCAAAATCCCGCAGC 542
DB 225 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 244
QY 543 CCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCTCCCAATCTCAGGCCAGTGTC 602
DB 245 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 264
QY 603 ACAGCCCTGATTTGAATCAGTGAATGGAAAAACAGTTACTTTGGAACTACTGGAATAATGA 662
DB 265 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 284
QY 663 GCAGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACACTTATGAC 722

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DB 285 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 304
QY 723 ACGAATGGTAGATACAGTGTAAAGTCTGGGCTCTGGAGAGTAAACGACGACGACGG 782
DB 305 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 324
QY 783 AGNGTGTATACCCAGCAGAGTGGACACTGTATACATCCTGGCTGGATGTGAGATGATGAA 842
DB 325 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 344
QY 843 ATACAATGGAATCCACCAAGACTGAATTAATAGGATGATCTTCAACACAGCAAGTG 902
DB 345 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 364
QY 903 TGTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATCTCCCAATGTCTCC 962
DB 365 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 384
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCACCGACTGAAGCGGAAATTCACGGGGGC 1022
DB 385 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 404
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTATGACCATCGAACAGTCTAC 1082
DB 405 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspSerPyrAspHisGlyThrAlaHis 424
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATTTCTGATCTCAGACACAAGTTCATATGATCT 1142
DB 425 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 444
QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCAACTCTGAGGAACTCTTTTG 1202
DB 445 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 464
QY 1203 TTTAAACCAAGAAAACATTACTTTTCAAAATGSCACAGATCTTTTCATTGCTATTTCAGGCT 1262
DB 465 PheLysProGluThrIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 484
QY 1263 GTTGATAAGGTCTGATCTCGAAATATCCAAATATCCACATTGCACGAGTATCTTTGTTATT 1322
DB 485 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 504
QY 1323 CCTCCACAGACTCCGCCAGACACCTAGTCTGTGATGAAACGTCTGCTCTTGTCTTAAT 1382
DB 505 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 524
QY 1383 ATTCAATATCAACAGCACCATTCCTGGCATTACATTTTAAAAAATATATGGAAGTGGATA 1442
DB 525 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 544
QY 1443 GGAGAACTGCAGCTGTCTCAATAGCC 1466
DB 545 GlyGluLeuGlnLeuSerIleAla 552

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GenCore version 5.1.6  
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:\*

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2: /cgn2\_6/ptodata/1/iaa/5B.COMB.pep:\*  
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4: /cgn2\_6/ptodata/1/iaa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/iaa/PCITUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4754	88.4	914	4	US-09-623-624-6
2	4754	88.4	914	4	US-10-270-595-6
3	4753	88.3	914	3	US-09-193-562D-28
4	4753	88.3	914	4	US-10-055-412B-30
5	3656.5	68.0	913	4	US-09-623-624-2
6	3656.5	68.0	913	4	US-10-270-595-2
7	2866.5	53.3	917	3	US-09-049-698-41
8	2462.5	45.8	903	3	US-09-193-562D-46
9	2462.5	45.8	903	4	US-10-055-412B-46
10	2411.5	44.8	903	4	US-09-623-624-18
11	2411.5	44.8	903	4	US-10-270-595-18
12	2328	43.3	905	3	US-09-193-562D-2

13	2328	43.3	905	4	US-10-055-412B-2	Sequence 2, Appli
14	2324.5	43.2	902	3	US-09-193-562D-34	Sequence 34, Appl
15	2324.5	43.2	902	4	US-10-055-412B-34	Sequence 34, Appl
16	2258.5	42.0	1000	3	US-09-193-562D-30	Sequence 30, Appl
17	2258.5	42.0	1000	4	US-10-055-412B-30	Sequence 30, Appl
18	2125	39.5	795	3	US-09-193-562D-11	Sequence 11, Appl
19	2125	39.5	795	4	US-10-055-412B-11	Sequence 11, Appl
20	2125	39.5	821	3	US-09-193-562D-12	Sequence 12, Appl
21	2125	39.5	821	4	US-10-055-412B-12	Sequence 12, Appl
22	1996	37.1	943	4	US-09-643-597-161	Sequence 161, App
23	1996	37.1	943	4	US-09-480-884A-161	Sequence 161, App
24	1996	37.1	943	4	US-09-542-615A-161	Sequence 161, App
25	1996	37.1	943	4	US-09-606-421B-161	Sequence 161, App
26	1996	37.1	943	4	US-09-221-107-161	Sequence 161, App
27	1996	37.1	943	4	US-09-466-396A-161	Sequence 161, App
28	1996	37.1	943	4	US-09-476-496A-161	Sequence 161, App
29	1996	37.1	943	4	US-09-630-940B-161	Sequence 161, App
30	1994	37.1	943	4	US-09-623-624-4	Sequence 4, Appli
31	1994	37.1	943	4	US-10-270-595-4	Sequence 4, Appli
32	1988	37.0	943	3	US-09-193-562D-32	Sequence 32, Appl
33	1988	37.0	943	4	US-10-055-412B-32	Sequence 32, Appl
34	1985.5	36.9	920	4	US-09-643-597-357	Sequence 357, App
35	1985.5	36.9	920	4	US-09-630-940B-357	Sequence 357, App
36	1960.5	36.4	942	4	US-09-919-172-87	Sequence 87, Appl
37	1783	33.1	791	4	US-09-643-597-170	Sequence 170, App
38	1783	33.1	791	4	US-09-480-884A-170	Sequence 170, App
39	1783	33.1	791	4	US-09-542-615A-170	Sequence 170, App
40	1783	33.1	791	4	US-09-606-421B-170	Sequence 170, App
41	1783	33.1	791	4	US-09-466-396A-170	Sequence 170, App
42	1783	33.1	791	4	US-09-476-496A-170	Sequence 170, App
43	1783	33.1	791	4	US-09-630-940B-170	Sequence 170, App
44	1341	24.9	592	4	US-09-643-597-169	Sequence 169, App
45	1341	24.9	592	4	US-09-480-884A-169	Sequence 169, App

## ALIGNMENTS

### RESULT 1

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

## Alignment Scores:

Pred. No.: 0 Length: 914  
Score: 4754.00 Matches: 913  
Percent Similarity: 99.89% Conservative: 0  
Best Local Similarity: 99.89% Mismatches: 1  
Query Match: 88.36% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-623-624-6 (1-914)

QY	25	ATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATCTTCACTTCTAGAGGGGCCCTG	84
DB	1	MetGlyProPheLysSerValPheIleLeuHleLeuHleLeuGluGlyAlaLeu	20
QY	85	AGTAATTCATCTCATTGAGTGAACAAATGCTATGAGGCAATTCGTTGCAATCGAC	144
DB	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTCCAGAGTGAACACACTATTCAACAAATAAGGACATGTGACCCAGGCA	204
DB	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGATCTGTTGAAGTACAGGAAGCGATTATTTCAAAATGTGTCATTTG	264
DB	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCTGAAACATGGAAGACAAAGGCTGACTATGTGAGACAAAACTTGAGACCTACAA	324
DB	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGTTGTTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG	384
DB	101	AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGCACTCTGGAGAGAGGTTGAAGATCCACTCTCTGATTTTCAATTGCA	444
DB	121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGTTAGCTGAATATGACCAACAAGGTAGGCAATTTGTCCATGAGTGGCTCAT	504
DB	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluThrAlaHis	160
QY	505	CTACGATGGGAGTATTGACGAGTACAATAATGATGAGAAATTTACTTATCCAAATGGA	564
DB	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGATAACAGCAGTAAAGTCTTACAGAGGTATTACTGTACAAATGAGTAAAGAACTGT	624
DB	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGCACTGTTTACACCAAAAGATGCACATTCAATAAGTAACAGGACTCTATCAA	684
DB	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys**ThrGlyLeuTyrGlu	220
QY	685	AAAGATGTGAGTTGTTCTCCAAATCCGGCAGAGGAGAGGTTCTATATATGTTTGA	744
DB	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTGATCTTATAGTTGAATCTGTATCAGAACAAACCAACAAAGAAAGCTCCA	804
DB	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAGCAAAATCAAAATCTCCGAAGCAATGCGGAAGTATCGGTGATCTCTGAG	864
DB	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280

QY	865	GACTTTAAGAAAAACCACTCTATGACAAACAGCCACCAAAATCCCACTTCTCAATGCTG	924
DB	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGCAACAAAGAAATTTGTGTTTGTCTTGTGACAAATCTGGAAGCATGCGACTG	984
DB	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCCCTCAATCGACTGAATCAAGCAGCGCAGCTTTCTCTGCTGCAGACAGTTGAGCTG	1044
DB	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGTCTCTGGGTTGGGATGGTGAATTCACATTCACAGTGTGCGCATTTACAAAGTCAATA	1104
DB	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTACTCGACAGCTTCA	1164
DB	361	GlnIleAsnSerGlySerAspArgThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGACGTCCTCATCTGACAGCGGCTTCGATCGCATTTACTGCTGATTAGGAAGAATAT	1224
DB	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACCTGATGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTATAAGTGGG	1284
DB	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAACAGGTCAAAACAAAGTGTGTCATCATCCACACAGTCTCTTGGGGCTCT	1344
DB	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGCTCAACAACTAGACAGGCTGTCCAAATACACAGGAGTTTACAGACATATGCTTCA	1404
DB	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTTCAGAACAAATGGCTCATGTGCTTTTGGGGCCCTTTTCATCAGAAATGGA	1464
DB	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACGCCAG	1524
DB	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGATCAATGGCACAGTGTGTCGACAGCAGCGTGGGAAGGACACTTTGTTTCTTATC	1584
DB	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGACAAACGACGCTCCCAATCCTTCTCTGGGATCCCAAGTGGACAGCAAGGT	1644
DB	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGACAAAAACACCAAAATGGCTCTCCAAATCCCAAGTCTGCTTAAG	1704
DB	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCACTTGGAAATACAGTCTGCAGCAAGCTCACAAACCTTGACCTGACTGTCACG	1764
DB	561	ValGlyThrTrpLysThrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCCGTCCGTCCTTACCTCCCTCCCAATTTACAGTGAATTCCTCCAAACGAAACAGGAC	1824
DB	581	SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp	600
QY	1825	ACAGCAAAATCCCGCCCTCTGGTAGTTATGCAATATTCGCCAGGAGCGCTCCCA	1884
DB	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	1885	ATTCCTAGGCGCAGTGTACAGCCCTGATTTGAATCAGTGAATGAAACAAAGTACCTTG	1944
DB	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640

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QY 1945 GAACCTCTGGATAATGGAGCAGGTCTGATCTACTAAGGATGACGGTGTCTACTCAAG 2004
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660
QY 2005 TATTTCACACTTATGACACCAATGGTAGATACAGTGTAAAGTGGCGGTCTCTGGAGGA 2064
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAACGACGACGACGAGAGTATACCCAGCAGAGTGGAGCAGCTGACATCACTCCGGC 2124
Db 681 ValAsnAlaAlaArgArgArgValLeuProGlnGlnSerGlyAlaLeuTyrPheProGly 700
QY 2125 TGGATTGAGATGATGAATACATATGAATCCCAAGACCTGAAATTAATAAGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY 2185 GTTCAACACAGCAGCTGTCTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAATGCTCCATACCTGATCTCTTCCACCTGSCCAAAATCACGACCTCAAG 2304
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760
QY 2305 GCGGAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364
Db 761 AlaGluIleHisGlySerLeuLeuAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAAATAGTACAAGTATCTTGATCTCAGA 2424
Db 781 AspHisGlyThrAlaHisLysTyrIleAlaArgIleSerThrSerIleLeuAspLeuArg 800
QY 2425 GACAAGTTCAAATGAATCTCTCAAGTGAATPACTACTGCTCTCATCCCAAGGAGCCAAC 2484
Db 801 AspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY 2485 TCTGAGAGAGCTTTTGTGTTAAACAGAAACATTAATCTTTGAAATGGCACAGATCTT 2544
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QY 2545 TTCATTGCTATTACAGCTGTTGATAGTTCGATCTGAAATCAAAATATCCCAATTCGA 2604
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QY 2605 CGAGTATCTTTGTTTATCTCTCACAGACTCCGCGAGACACCTAGTCTGATGAAAGC 2664
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880
QY 2665 TCTGCTCTTGTCTTAATATTCATATCAACAGCACCATTCCTGGCATTCACATTTTAAA 2724
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900
QY 2725 ATTATGTGAAGTATAGGAACTGAGCTGCTCAATAGCC 2766
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

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## RESULT 2

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US-10-270-595-6
; Sequence 6, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; PRIOR FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360

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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

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## Alignment Scores:

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Pred. No.: 0
Score: 4754.00
Percent Similarity: 99.89%
Best Local Similarity: 99.89%
Query Match: 88.36%
Indels: 0
Gaps: 0

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US-09-049-696-20 (1-2983) x US-10-270-595-6 (1-914)

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QY 85 AGTAATTCATCTCATTCAGCTGAACAACAATGGCTATGAAGGATTCCTGTTGCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCATATGTCAGAGATGAACACTCAATCAACAAATAAGGACATGCTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAGCTACAGAAAGCCATTTTATTTCAAAAATGTTGCCATTTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAAACTTGAGACCTACAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGNAGGCTGAAAGGATCCACCTCCTCCTGATTTCATGCA 444
Db 121 GlnMetGlyAsnCysGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 140
QY 445 GGAAAAAGATTAGCTGAATATGGAACCAAGCTAGGGGATTTGTCATGAGTGGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTAGATGGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTACTTATCAATGGA 564
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAACGAGTAAGATGTTACGAGGATTTACTGGTCAAAATGATAGTAAAGAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200

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QY	625	CAGGAGGCGAGCTGTGTACACCAAAAGATGACATTCATTAAGTAAACAGGACTCTATGAA	584	QY	1705	GTTCGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTACG	1764
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys***ThrGlyLeuYrGlu	220	Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	685	AAAGATGTGAGTTGTCTTCCAAATCCCGCCGACGCGAAGGCTCTATATGTTTGA	744	QY	1765	TCCCTGGCTCCAAATGCTACCTGCTCAATTACAGTGACTTCCAAAACGACAGGAC	1824
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240	Db	581	SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp	600
QY	745	CAACATGTTGATTCTATAGTCTGAATCTGTACAGAACAAAAACCAACAAAGACTCCA	804	QY	1825	ACCAGCAAAATCCCCAGCCCTCTGTAGTTATGCAATATATCGCCAAAGAGCCTCCCA	1884
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260	Db	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	805	AACAACAAAATCAAAAATGCAATCTCCGAAGCACATGGGAAGTATCCGTATCTGAG	864	QY	1885	ATTCTCAGCGCCAGTGTACAGCCCTGATGTAATCAGTGAATGGAAAAACAGTTACTTG	1944
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280	Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
QY	865	GACTTTAAGAAACCACTCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTG	924	QY	1945	GAACACTCTGGATAATGGAGCAGTGTCTGATCTACTTAAGATGACGGTCTCTACTCAAG	2004
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300	Db	641	GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
QY	925	CAGATTGGCAAAAGAAATGTGTCTTTAGTCTCTTGACAAATCTGGAAAGCATGGCGACTGGT	984	QY	2005	TATTTTCCACAACTTATGACACAGCAATGATAGTATACAGTGTAAAGTGGGGCTCTGGAGGA	2064
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320	Db	661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
QY	985	AACCGCTCCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGACAGACAGTTGAGCTG	1044	QY	2065	GTTAAACGACCCAGACGAGAGTATACCCACAGACAGTGGAGCACTGTATACACTGGC	2124
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340	Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
QY	1045	GGTCTCTGGTTGGGATGGTACATTTGACAGTGTGCCCATGTGTACAAAGTGAACCTATA	1104	QY	2125	TGGAATGAGAATGATGAATACAAATCAATGGAATCCACCAAGACCTGAAATTAATAGGATGAT	2184
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360	Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	1105	CAGATAAAGCTGGCAGTGACAGGACACACTCGCCAAAAGATTACCTGACGACAGCTTCA	1164	QY	2185	GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAACATCTCTGGGAGGCTCATTTGTGGCTCT	2244
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp	380	Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	1165	GGAGGACGTCCTATGTCAGCGGGCTTCGATCGGCATTTACTGTGATTAGAGAATAT	1224	QY	2245	GATGTCCCAAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCCGACCTGAAG	2304
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400	Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	1225	CCACTGATGATCTGAATTTGCTCTGACGGATGGGAAGACACACTATTAAGTGGG	1284	QY	2305	GCGGAATTCACGGGGCAGTCTCATTAATCTGACTGGACAGCTCTGGGATGATTAT	2364
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420	Db	761	AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspIyr	780
QY	1285	TGCTTTAACAGAGTCAAAACAAAGTGGTCCATCATCCACAGTCGCTTTGGGCGCTCT	1344	QY	2365	GACCATGGAACAGCTCAACAGTATATCATTCGAATAAGTACAAGTATCTTGATCTCAGA	2424
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440	Db	781	AspHisGlyThrAlaHisLysTyrIleArgIleSerThrSerIleLeuAspLeuArg	800
QY	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAATGTACAGAGGTTTACAGACATATGCTTCA	1404	QY	2425	GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAAC	2484
Db	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460	Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
QY	1405	GATCAAGTTCAGAACATGGCTCATTTGATGCTCTTTTGGGGCCCTTTTCATCAGGAATGGA	1464	QY	2485	TCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTAATTTGAAATGGCACAGATCTT	2544
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480	Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGTGAAGGATTAACCTCCAGAACGCGCAG	1524	QY	2545	TTCAATCTCTATTCAGGCTGTGATAAGTCCGATCTGAAATCAGAAATATCCAACTTCCA	2604
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500	Db	841	PhelIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
QY	1525	TGGATGAATGGCAGTATCGTGGACAGACCGGTGGGAAGACACTTTCTTCTTATC	1584	QY	2605	CGAGTATCTTTGTTTATTCTCCACAGACTCCGCCGACAGACACTAGTCTGTGATGAACG	2664
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520	Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
QY	1585	ACCTGGACAACGACGCTCCCAAAATCTCTCTGGGATCCAGTGGAGAGAAGCAAGGT	1644	QY	2665	TCTGCTCTTGTCTCTAATATATCATATCAACAGACCACTCTCTGGCATTTCACATTTTAAA	2724
Db	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540	Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	1645	GGCTTTGTAGTGGACAAAACCAAAATGGCTTACCTCCAAATCCCGAGGATTCCTAAG	1704	QY	2725	ATTATGTGGAAGTGATAGGAGAACTGCAGCTGTCAATAGCC	2766
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560	Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

US-09-193-562D-28  
 ; Sequence 28, Application US/09193562D  
 ; Patent No. 6309857  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0052  
 ; CURRENT APPLICATION NUMBER: US/09/193,562D  
 ; CURRENT FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 28  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-193-562D-28

Alignment Scores:  
 Pred. No.: 0 Length: 914  
 Score: 4753.00 Matches: 912  
 Percent Similarity: 100.00% Conservative: 2  
 Best Local Similarity: 99.78% Mismatches: 0  
 Query Match: 88.35% Indels: 0  
 DB: 3 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-193-562D-28 (1-914)

QY	25	ATGGGGCCCAATTAAGAGTTCTGTGTCATCTTGAATCTTTCACCTTCTAGAGGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCATCTCATTCAGCTGACACAACTGCTATGAAGGCAATGTCTTGAATTCGAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTGCCAGAGATGAACACCTCATTTCAACAAATAAAGGACATGTGTACCCAGGCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTTG	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTGAACATGAAGACAAAGCTGACTATGTGAGCCAAACTTGAGACCTACAAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCCTGATTTCAATGCA	444
Db	121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAGATTAGCTGAATATGGACCAAGTAGGCAATTTGTCCATGAGTGGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis	160
QY	505	CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATCTTACTTATCCAAATGA	564
Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLysSerAsnGly	180
QY	565	AGAATACAGCAGTAAAGATTTCAGCAGGTATTTACTGGTACAAATCTAGTAAAGAAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGCAGCTGTTACACAAAAGATGCACATTAATGAAGTAAAGGACTCTATGAA	684
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220

QY	685	AAAGGATGTGAGTTGTTCTTCCAAATCCCGCCACAGGAGAGGCTTCTATATGTTGCA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTCTATAGTTGAATTTCTACAGAAACAAACACACAAAGAGGTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGCCTGATTCGTAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTAAGAAACCACTCTATATGACACACAGCCACCAAAATCCACCTTCTCATGCTG	924
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATGTGTGTTTAGTCCTTGACAAATCTGGAAGCATGCGACTGT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTCTGCTGACAGACTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCGGTTGGGATGTTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAACCTA	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGGACGACGACAGGACACACTCGCCMAAAGATTACTCGACAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGAGCTCCTCATCTGACGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACTGATGGATCGAAATGTGCTGCTGCGGATGGGAGAGACACACTATAGTGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAACGAGGTCAAAACAAAGTGTGCTCATCTCCACAGTCGCTTTGGGCGCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGTCTAAGAACTAGAGAGCTGTCCAAATAGCAGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTCAGAACAAATGGCTCATTCATGCTTTTGGGCGCTTTCATCAGGAATGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAGGATTAAACCTCCAGAACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGACAGTGCATCGTGACAGCCGCTGGGAAAGGACACTTTGTTCTTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACACGCGCTCCCAATCTCTCTGGATCCCGCTGAGGAGCAGACAGCAAGT	1644
Db	521	ThrTrpThrThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGGCAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCACTTGAATACAGTCTGCAAGCAAGCTCACAAACCTTCAACCTGACTGTACG	1764
Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCGCTGGCTCCAATGTACTCCCTCGCTCCAAATTACAGTAGCTTCCAAACGAACAGGAC	1824



Db 581 SerArgAlaSerAsnAlaThrLeuProProlIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAATCCCGAGCCCTCTGGTAGTTATGCAAAATATTGCGAAGAGCCCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGCGCAGTGTCTACAGCCCTGATTGTAATCAGTGAATGGAATAACAGTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACACTACTGTAATCGAGCAGTCTGTATGCTACTTAAGCATGACGGTCTCTACTCAAGG 2004  
Db 641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTySerArg 560  
QY 2005 TATTTCACACTTATGACACGAATGCTAGATACAGTGTAAAGTGGCGCTCTGGAGGA 2064  
Db 661 TyrPheThrThrTyAspThrAsnGlyArgTySerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAGCAGCAGAGAGAGTATACCCAGCAGAGTGGAGCTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgargValIleProGlnGlnSerGlyAlaLeuTyIleProGly 700  
QY 2125 TGGATTGAGAATCATGAAATACAAATCGAATCCACCAAGACCTGAAATTAATAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAGCAAGTGTGTTTCACGAGAAATCCTCGGAGGCTCATTTGGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGACAGCTCCTGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAAATGATCTTGCATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisIlyTyIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAGCTTCAATGAATCTCTCAAGTGAATCTACTCTCATCCCAAGGAGCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTACTTTTGAAATGGCAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCAATGCTATTCCAGGCTGTGTATAGTGTGATCTGAAATCAGAAATATCCAACTGCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTGTGTTTATCTCCACAGACTCCGCGAGAGACACTAGTCTGATGAACG 2664  
Db 861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTGTTCTTAATATTCATATCAACAGACCACTTCTGGCATTCACATTTTAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAGTGGATAGAGAACTGACAGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 4

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 88.35% Indels: 0  
DB: Gaps: 0  
US-09-049-696-20 (1-2983) x US-10-055-412B-28 (1-914)  
QY 25 ATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTCACTTCTAGAGGGGCCCTG 84  
Db 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20  
QY 85 AGTAATTTCACTCATTCAGCTGAACAAATGGCTATGAAGCATTCGCTGCAATCGAC 144  
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40  
QY 145 CCCAATGTCCCAAGAGATGAACACTATTCAACAAATAAGAGACATGTGACCCAGGCA 204  
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60  
QY 205 TCTCTGTATCTCTTCAAGCTACAGGAAGCGATTTTATTTCAAAATCTGTCATTG 264  
Db 61 SerLeuTyLeuPheGluAlaThrGlyLysArgPheTyPheLysAsnValAlaIleLeu 80  
QY 265 ATTCTCTGAAACATGGAAGACAAAGGCTGACTATGTGAGACCACAACTTGAGACCTACAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrLys 100  
QY 325 ATGCTGATGTTCTGTTCTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
QY 385 CAGATGGCAACTGTGAGAGAGGGTGAAGATCCACTCCTCTGATTTTCAATGCA 444  
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAAAAAGTTAGCTGAATATGACCAACAGGTAGGCGCATTTGTCCATGAGTGGGCTCAT 504  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160  
QY 505 CTACGATGGGAGTATTTTACAGAGTACAATAATGATGAGAAATTTCTATTCTCAATGGA 564  
Db 161 LeuArgTrpGlyValPheAspGluTyAsnAsnAspGluLysPheTyLeuSerAsnGly 180  
QY 565 AGNATACAGCAGTAGATGTTTACAGCAGGTATTACTGTTACAAATCTAGTAAAGAGTGT 624  
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
QY 625 CAGGAGGAGCAGTGTGTTTACACCAAAAGATGCACATTCATAAAGCTAACAGACTCTATGAA 684  
Db 201 GlnGlyGlySerCysTyThrLysArgCysThrPheAsnLysValThrGlyLeuTyGlu 220  
QY 685 AAGAGATGAGTTTGTCTTCCATCCCGCAGCAGGAGGCTTCTATAATGTTTGA 744  
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

QY 745 CAACATGTTGATTCTATAGTTGAATCTGTACAGAACAAACACACAAAGAGCTCCA 804  
 Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
 QY 805 AACAAAGAAATCAAAATCAATCTCCGAAGCACATGGGAAGTGTATCCGTGATTCGTGAG 864  
 Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
 QY 865 GACTTTAAGAAACCACTCTCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTG 924  
 Db 281 AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300  
 QY 925 CAGATTGGCAAGAAATGTCCTTTAGTCCCTTGACAAATCTGGGAAGCATGGCACTGGT 984  
 Db 301 GlnIleGlnArgIleValCysLeuValLeuAspLysSerIleGlySerMetAlaThrGly 320  
 QY 985 AACCGCCTCAATGACTGAATCAAGCAGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
 Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
 QY 1045 GGGTCTCTGGTGGGATGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTCAT 1104  
 Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
 QY 1105 CAGATAACAGTGGCAGTGCACAGGGACACACTGCCCAAGATTAACCTGCACAGCTTCA 1164  
 Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380  
 QY 1165 GGAGGACGCTCCATCTGCAGCGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAAATAT 1224  
 Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
 QY 1225 CCAACTGATGATCTCAATTTGCTGTGTCGAGATGGGGAAGACAACTATAAGTGGG 1284  
 Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
 QY 1285 TGCTTTAAGAGGTCAAAAGTGTGTCATCATCCACAGCTGCTTTGGGGCCCTCT 1344  
 Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
 QY 1345 GCAGCTCAAGAACTAGAGGAGTGTCCAAAATGACAGAGAGGTTTACAGACATATGCTCA 1404  
 Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrThrAlaSer 460  
 QY 1405 GATCAAGTTCAAGAACTAGGCTCATTTGATGCTTTGGGGCCCTTTCATCAGGAATGGA 1464  
 Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
 QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAG 1524  
 Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
 QY 1525 TGGATGAATGGCACAGTATCGTGACAGCACCGGTGGGAAGGACACTTTGTTCTTATC 1584  
 Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
 QY 1585 ACCTGGACACCGACGCTCCCAATTCCTTCTGTGGATCCAGTGGACAGGAAGCAAGT 1644  
 Db 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
 QY 1645 GGCTTTGTAGTGACAAACCAACCAATGGCTTACCTCCAAATCCAGGCATTCCTAAG 1704  
 Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
 QY 1705 GTTGGCACTTGAAATACAGTGTCAAGCAAGAGCTCACAAACCTTGACCCGTGACTGTCCAG 1764  
 Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
 QY 1765 TCCCGTGGCTCAATGCTACCTGCTCCAAATTAAGTGAATTCAGTGAATTCACAAACGAAGGAC 1824  
 Db 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600

QY 1825 ACCGCAAAATCCCGAGCCCTCTGCTAGTATTATGCAAAATATTCGCCAAGAGCCTCCCCA 1884  
 Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
 QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGAAAGAAACAGTTACTCTTG 1944  
 Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
 QY 1945 GAACTACTGATAAATGAGCAGGTGCTGATCTACTACTAAGCATGACGGTGTCTACTCAAGG 2004  
 Db 641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660  
 QY 2005 TATTTACAACTTATGACAGCAATGCTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA 2064  
 Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
 QY 2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCATGTACATACCTCTGGC 2124  
 Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
 QY 2125 TGGATTGAGATGATAAATACAATGGAATCCCAAGACCTGAAATTAATTAAGGATGAT 2184  
 Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
 QY 2185 GTTCAACACAGCAAGTGTGTTTCACAGAAACATCTCCGGAGGCTCATTTGGGCTTCT 2244  
 Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
 QY 2245 GATGTCCCAAAATGCTCCCATACCTATCTCTCCACCTGGCCAAATACCCACCTGAAG 2304  
 Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
 QY 2305 GCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATTAT 2364  
 Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
 QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAGTATCTTCTGATCTCAGA 2424  
 Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
 QY 2425 GACAAAGTTCAATGAATCTCTCAAGTGAATACTCTGCTCTCATCCCAAGCAAGCAAC 2484  
 Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
 QY 2485 TCTGAGGAAGTCTTTTGTTTAAACACAGAAACATTACTTTTGAATAATGGCACATCTT 2544  
 Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
 QY 2545 TTCATTGCTATTCAGCTGTTGATAAGCTCGATCTGAAATCAGAAATATCCACATTGCA 2604  
 Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
 QY 2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCCGCGCAGAGACACTAGTCTCTCATGAAACG 2664  
 Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
 QY 2665 TCTGCTCTCTGCTTAATATTATATCAACAGCACCATTCCTGGCATTCACATTTTAA 2724  
 Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
 QY 2725 ATTATGTGAAGTGAATAGGAAGTGCAGCTGTCAATAGCC 2766  
 Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 5

US-09-623-624-2

; Sequence 2, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders



501	Db	GlnTrpMetAsnGlySerValIleValAspSerValGlyLysAspThrLeuPheLeu	520
1582	Qy	ATCACTTGGACAACGCGAGCTCCCAAAATCCTTCTCTGGGATCCAGTGACAGAACAA	1641
521	Db	IleIleThrTrpThrHisProProThrIlePheIleIleTrpAspProSerGlyValGluGln	540
1642	Qy	GGTGGCTTTGTAGTGGACAAACACACAAATGGCTTACTCCAAATCCCCAGCATTGCT	1701
541	Db	AsnGlyPheIleLeuAspThrThrThrLysValAlaTyrLeuGlnValProGlyThrAla	560
1702	Qy	AAGGTTGGCACTTGGAAATACAGTCTCGACGCAAGCTCACAAACCTTGACCCGTACTGTC	1761
561	Db	LysValGlyPheTrpLysTyrSerIleGlnAlaSerGlnThrLeuThrLeuThrVal	580
1762	Qy	ACGTCCCGTGGCTCCCAATGCTACCTCCCTCCCAATTACAGTGCCTCCAAAACGAAACAAG	1821
581	Db	ThrSerArgAlaAlaSerAlaThrLeuProProIleThrValThrProValValAsnLys	600
1822	Qy	GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCTCC	1881
601	Db	AsnThrGlyLysPheProSerProValThrValTyrAlaSerIleAspGlnGlyAlaSer	620
1882	Qy	CCAAATCTCAGGCGCAGTGTCCAGCCCTGATTCGAATCAATCAGTGAATGAAACACAGTTACC	1941
621	Db	ProIleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThr	640
1942	Qy	TTGGAACTACTGGATAATGGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCA	2001
641	Db	LeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAsnAspGlyValTyrSer	660
2002	Qy	AGGTATTTCACAACTTATATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGA	2061
661	Db	ArgPhePheThrAlaPheAspAlaAsnGlyArgTyrSerValLysIleTyrAlaLeuGly	680
2062	Qy	GGAGTTAACCGACGCCAGCAGGAGTGATACCCACGACAGTGGAGCAGTGTACATCACT	2121
681	Db	GlyValThrSerAspArgGlnArgAlaAlaProProLysAsnArgAlaMetTyrIleAsp	700
2122	Qy	GGCTGGATTTCAGAAATGATAATCAATGGAATCCACCAAGACTCGAAATTAATAGGAT	2181
701	Db	GlyTyrIleGluAspGlyGluValArgMetAsnProProArgProGluThrSerTyr---	719
2182	Qy	GATGTTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCCTCGGAGGCTCATTTGTGGCT	2241
720	Db	---ValGlnAspLysGlnLeuCysPheSerArgThrSerSerGlyGlySerPheValAla	738
2242	Qy	TCGTGATGTCCTCA---AATGCTCCCATCTGATCTCTTCCACCTGGCCAAATCACCAGC	2298
739	Db	ThrAsnValProAlaAlaProIleProAspLeuPheProCysGlnIleThrAsp	758
2299	Qy	CTCAAGCGCGAAATTTCACGGGGCAGTCTCATTAATCTGACTTTGGACAGCTCTCGGGAT	2358
759	Db	LeuLysAlaSerIleGlnGlyGlnAsnLeuValAsnLeuThrTrpThrAlaProGlyAsp	778
2359	Qy	GATTATGACCATTGGAAACAGCTCAACAGTATATCATTCGAATAAGTACAAGTATCTTGAT	2418
779	Db	AspTyrAspHisGlyArgAlaSerAsnTyrIleIleArgMetSerThrSerIleValAsp	798
2419	Qy	CTCAGACACAAGTTCAATGAAATCTTTCAGTGGAACTACTCTGCTCTCATCCCAAGGAA	2478
799	Db	LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu	818
2479	Qy	GCCAACTCTCAGGAAGTCTTTTGTGTTTAAACACGAAAAACATTACTTTTGAATGGCACA	2538
819	Db	AlaSerSerGluGluIlePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr	838
2539	Qy	GATCTTTTCATTGCTATTTCAGGCTGTTTGATAAGTTCGATCTGAAATCAGAAATATCAAC	2598
839	Db	AspIlePheIleAlaIleGlnAlaValAspLysSerAsnLeuLysSerGluIleSerAsn	858
2599	Qy	ATTGCACGATGATCTTTGTTTATTCCTCCACAGACTCCGCGACGACACCTAGTCTCTGAT	2658

Db 859 IlealaargValserValPheIleProAlaGlnGluPro-----ProlleProGlu 875  
QY 2659 GAAACGCTGCTGCTGCTGCTTAATATTATATCAACAGCACCATTCCTGGCATTACACATT 2718  
Db 876 AspSerThrProProCyProAapIleSerIleAsnSerThrIleProGlyIleHisVal 895  
QY 2719 TTTAAATATATGGAAGTAGTAGAGAACTGCAGCTGTCAATA 2763  
Db 896 LeuIlySileMetTrpLysTrpLeuGlyGluMetGlnValThrLeu 910

RESULT 6  
US-10-270-595-2  
; Sequence 2, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-270-595-2

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Alignment Scores:
Pred. No.:      3.77e-310      Length:      913
Score:          3656.50        Matches:     694
Percent Similarity: 86.99%    Conservative: 102
Best Local Similarity: 75.85% Mismatches:   112
Query Match:      67.96%     Indels:       7
DB:               4          Gaps:         4

US-09-049-696-20 (1-2983) x US-10-270-595-2 (1-913)

Qy      25  ATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTTCATCTTTCACCTTCTAGAAGGGGCCCTG 84
      |||||
Db      1  MetGluSerLeuIlySerProValPheLeuLeuIleGluHisLeuLeuGluGlyValLeu 20
      |||||

Qy      85  AGTAATTCATCTTCAGCTGAACACAATGGCGTATCAAGGCATTCGTGTGCAATCGAC 144
      |||||
Db      21  SerGluSerLeuIleGlnLeuAsnAsnGlyrGluGlyIleValIleAlaIleASP 40
      |||||

Qy      145  CCCAATGTGCCAGAAGTAAACACTCATTCACACAATAAAGGACATGTGTGCCCCAGGCCA 204
      ::|||
Db      41  HisASPValProGluASPGLuaLaLeuIleGlnHisIleIlyASPMetValThrGlnAla 60
      ::|||

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Db 779 AspTyrAspHisGlyArgAlaSerAsnTyrIleIleArgMetSerThrSerIleValAsp 798
QY 2419 CTCAGAGACAGTTCATCAATCTCTTCAAGTGATACTACTGCTCTCATCCCAAGAA 2478
Db 799 LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuProLysGlu 818
QY 2479 GCCAACTCTGAGGAGTCTTTTGTAAACAGAAAACATTAATCTTTGAAAATGGCACA 2538
Db 819 AlaSerSerGluGluIlePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr 838
QY 2539 GATCTTTTCATGCTATTCAGGCTGTTGATAGGTGCGATCTGAAATCAGAAATATCCAA 2598
Db 839 AspilePheIleAlaIleGlnAlaValAspLysSerAsnLeuLysSerGluIleSerAsn 858
QY 2599 ATTGCACAGACTATCTTTGTTTATCTCCACAGACTCCGCCAGACACACTAGTCTGAT 2658
Db 859 IleAlaArgValSerValPheIleProAlaGlnGluPro-----ProIleProGlu 875
QY 2659 GAAACGTCGCTGCTGCTGCTTAATATTCATATCAACAGCACCATTCCTGGCATTCACATT 2718
Db 876 AspSerThrProProCysProAspileSerIleAsnSerThrIleProGlyIleHisVal 895
QY 2719 TTAATAATATGTGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2763
Db 896 LeuLysIleMetTrpLysTrpLeuGlyGluMetGlnValThrLeu 910

RESULT 7
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41
Alignment Scores:
Pred. No.: 3,11e-241 Length: 917
Score: 2866.50 Matches: 562
Percent Similarity: 75.03% Conservative: 123
Best Local Similarity: 61.56% Mismatches: 217
Query Match: 53.28% Indels: 11
DB: 3 Gaps: 8

US-09-049-696-20 (1-2983) x US-09-049-698-41 (1-917)
QY 25 ATGGGGCCATTAAAGAGTCTGTTGTTTCATCTTGTATCTTGTATCTTACCTTCTAGAGGGGCCCTG 84
Db 1 MetGlyLeuPheArgGlyPheValPheLeuLeuValLeuCysLeuLeuHisGlnSer--- 19
QY 85 AGTAATTCACCTCATTACAGTGAACAAATGGCTATGAAGGCAATGTCGTTGCAATCCAC 144
Db 20 AsnThrSerPheIleLeuLysLeuAsnAsnGlyPheGluAspIleValIleValIleAsp 39
QY 145 CCCAATGTGCCAGAGATGAACACTCATTCAACAAATAAAGGACATGTCGACCCAGCA 204
Db 40 ProSerValProGluAspGlyLysIleIleGlnIleGluAspMetValThrThrAla 59
QY 205 TCTCTGATCTGTTGAAGCTACAGGAAAGGATTTTATTTCAAAAATGTTGCCATTTTG 264
Db 60 SerThrTyrLeuPheGluAlaThrGluLysArgPhePhePheLysAsnValSerIleLeu 79
QY 265 ATTCTGAAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db 80 IleProGluAsnTrpLysGluAsnProGlnTyrLysArgProLysHisGluAsnHisLys 99
QY 325 AATGCTGATGTTCTGGTGTGCTGAGTCTCTCCAGGTATGATGACCCCTACACTGAG 384
Db 100 HisAlaAspValIleValAlaIleProThrLeuProGlyLysArgAspGluProThrLys 119
QY 385 CAGATGGGCACTGTGAGAGAGAGGTTGAAAGGATCCACCTCCTCTGATTTTCATTGCA 444
Db 120 GlnPheThrGluCysGlyGluLysGlyGluTyrIleHisPheThrProAspLeuLeu 139
QY 445 GGAAAAAGTTAGCTGAATATGACCAACAGGTGAGGCAATTTGCCATGAGTGGGCTCAT 504
Db 140 GluLysLysGlnAsnGluTyrGlyProGlyLysLeuPheValHisGluTrpAlaHis 159
QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATCTTACTTATCCATCGA 564
Db 160 LeuArgTrpGlyValPheAspGluTyrAsnGluAspGlnProPheTyrArgAlaLysSer 179
QY 565 ---AGAAATACAAAGCAGTAAGATGTTTCAGCAGGTATTTACTGTCACAAATGTAGTAAAG 621
Db 180 LysLysIleGluAlaThrArgCysSerAlaGlyIleSerGlyArgAsnArgValTyrLys 199
QY 622 TGTGAGGAGGCGCTGTTACACCAAAAGATGCACATTCAAATAAGTAACAGGACTCTAT 681
Db 200 CysGlnGlyGlySerCysLeuSerArgAlaCysArgIleAspSerThrThrLysLeuTyr 219
QY 682 GAAAAAGGATGTGATTTCTATAGTTGAATCTTGTCAGAACCAAAACCAACCAAGAGCT 741
Db 220 GlyLysAspCysGlnPhePheProAspLysValGlnThrGluLysAlaSerIleMetPhe 239
QY 742 GCACAAACATGTTGATTTCTATAGTTGAATCTTGTCAGAACCAAAACCAACCAAGAGCT 801
Db 240 MetGlnSerIleAspSerValValGluPheCysAsnGluLysThrHisAsnGluAla 259
QY 802 CCAACCAAGCAAAATCAAAATGCAATCTCCGAAGCACATCGGAGGTGATCCGATTCCT 861
Db 260 ProSerLeuGlnAsnIleLysCysAsnPheArgSerThrTrpGluValIleSerAsnSer 279

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Db	638	GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp	657
Qy	1975	GCTACTAAGATGACGGGTGCTACTCAAGGTATTTCACAACTTATGACACGAATGGTAGA	2034
Db	658	AlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArg	677
Qy	2035	TACAGTGTAAAGTCGGGGTCTGGGAGGAGTTAAACGACGCCAGCGAGAGTATACCC	2094
Db	678	TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln	697
Qy	2095	CAGCAGAGTGGAGCACTGTATACATCTCGGTGGATTGAGATGATGAAATACAAATGGAAT	2154
Db	698	ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn	717
Qy	2155	CCACCAAGACTGAAATTAATAGAGTAGTGTCAACACAAACAAGTG---TGTTTCAGC	2211
Db	718	ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluLeuGluAspPheSer	736
Qy	2212	AGAACATCTCGGAGGAGCTCATTTGTGGCTTCTGATGCCAAATGCTCCATACCTGAT	2271
Db	737	ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer	756
Qy	2272	CTCTTCCCACTGGCCAAATCACCGCACTGAAGCGC-----GAAATTCAGGGGGC	2322
Db	757	ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis-----	774
Qy	2323	AGTCTCATTAATCTGACTCGACAGCTCTCGGGGATGATTATCACCATGAAACAGCTCAC	2382
Db	775	-----IleGlnLeuSerThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn	792
Qy	2383	AAGTATATCATTCGAATAAGTACAAGTATTCTTGATCTCAGACACAAAGTTCAATGAATCT	2442
Db	793	serTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla	812
Qy	2443	CTTCAAGTGAATACTACTGCTCTCATCCCAAAGAGCAACTCTGAGGAGTCTTTTGTG	2502
Db	813	ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerGluAsnPheGlu	832
Qy	2503	TTTAAACCAAAACATTACTTTTGGAAATGGCACAGATCTTTTTCATCTGATTCAGGCT	2562
Db	833	PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla	852
Qy	2563	GTTGATAAGTTCGATCTGAAATCAGAATAATCCAACTATCGACAGATCTTTTGTATT	2622
Db	853	IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle	872
Qy	2623	CCTCCACAGACTCCGCCAGACACACCTAGTCCT	2655
Db	873	Pro-----MetProGluAspSerValPro	880

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RESULT 9
US-10-055-412B-46
; Sequence 46, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617, 0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: (Cunningham et al., 1995, J. Biol Chem., 270:31016-31026)

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US-10-055-412B-46

Alignment Scores:

Pred. No.:	5,39e-206	Length:	903
Score:	2462.50	Matches:	494
Percent Similarity:	71.04%	Conservative:	139
Best Local Similarity:	55.44%	Mismatches:	23
Query Match:	45.77%	Indels:	25
DBs:	4	Gaps:	13

US-09-049-696-20 (1-2983) x US-10-055-412B-46 (1-903)

QY	25	ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTCAITTCCTACCTTCTAGAGGGGCCCTG	84
DB	1	MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly---Met	19
QY	85	AGTAATTCCTCACTCAATTCAGCTGAACCAACAATGCTATGAAGGCAATGTCTGTCGAATCGAC	144
DB	20	LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn	39
QY	145	CCCAATGCGCCAGAGATGAACACTCATTCACAAATAAAGGACATGTGTGCCACGCA	204
DB	40	ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla	59
QY	205	TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTATTTCAAATACTGTGCCATTTTG	264
DB	60	SerThrTyrLeuPheHisAlaThrLysArgArgValTyrPheArgAsnValSerIleLeu	79
QY	265	ATTCCTGAACATGGAAGACAAAGCTGACTATGTGAGACCAAAACTTGTAGACCTACAA	324
DB	80	IleProMetThrTrpLysSerLysSerGluTyrLeuMetProLysGlnGluSerTyrAsp	99
QY	325	AATGCTGATGTTCTGGTCTGAGTCTACTCCTCAGGTAATGATGAACCCCTACACTGAG	384
DB	100	GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu	119
QY	385	CAGATGGGCAACTGTGGAGAGAAAGGTGAAGATCCACCTCACTCTGATTTCATTGCA	444
DB	120	GlnTyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu	139
QY	445	GGAAAAAGTTAGCTGAATATGGACCAACAGGTAGGCGATTGTCCATGAGTGGCTCAT	504
DB	140	ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis	159
QY	505	CTAGATGGGAGAGTATTTCAGAGTACAAATATGATGAGAATTTCTACTTATCC---	561
DB	160	LeuArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg	179
QY	562	GGAAGATACAAGACAGTAAGATGTTTCAGCAGGTATTACTGTGTACAAATCTACTAAGAG	621
DB	180	AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleVallys	199
QY	622	TGTCAGGAGGCAGCTGTTACACCAAAAGATGCACATTCAATAAGTAACAGCACTCAT	681
DB	200	CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr	219
QY	682	GAATAAGAGTGTAGTTGTTCTCCAATCCGCCACGACGAGAGAGGCTTCTATAATGTTT	741
DB	220	GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe	239
QY	742	GCACACATGTTGATTCTATAGTTGAATTTCTGTACAGAAACAAACCAACAAAGAGCT	801
DB	240	MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla	259
QY	802	CCAAACAGCAAAATCAAAAATTCGAATCTCCGAAGCACATGGGAAGTATCGGTGATTCT	861
DB	260	ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer	279
QY	862	GAGACTTCTAAGAAAAACCACTCCTATGACA-----ACACAGGCCCAAAATCCCACCTTC	915
DB	280	ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProProThrGlnProThrPhe	299
QY	916	TCATTGTCGAGATTGGACAAAGAATTCGTGTTTGTAGTCTTGTACAAATCTGGAAGCATG	975

Db 300 SerLeuLysSerLysLeuValValCysLeuValLeuAspLysSerGlySerMet 319  
Qy 976 GCGAGTGTAAACCGCTCAATCGATCAATCAAGCAGCGCCAGCTTTCTCTCTCGACACA 1035  
Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaGluLeuPheLeuIleGlnIle 339  
Qy 1036 GTTGAGCTGGGCTCGGTGGATGGTGTGATTCAGATTTGACAGTGTGCGCCATGCAAAAGT 1095  
Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
Qy 1096 GAATCATACAGATAAAGTGGCAGTCACAGGACACACTCGCCAAAAGATTACTCTCCA 1155  
Db 360 AsnLeuThrLysIleThrAspAspAsnValThrGluAsnIleThrAlaAsnLeuProGln 379  
Qy 1156 GCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCATTT---ACTGTGATT 1212  
Db 380 GluAlaAsnGlyGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIle 399  
Qy 1213 AGGAAGAATATCCAACTGATGGATCTGAATTTGGCTGTGACGGATGGGAGACACAAC 1272  
Db 400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419  
Qy 1273 ACTATAAGTGGGTCTTTAAACGAGGTCAAAAGTGGTGCCTCATCCACACAGCTCGCT 1332  
Db 420 GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleIleHisThrValAla 439  
Qy 1333 TTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATCAGAGGAGTTTACAG 1392  
Db 440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459  
Qy 1393 ACATATGCTTCAGATCAAGTTCAGAACTGAGGCTTCATGCTTTGGGGCCCTTTTCA 1452  
Db 460 PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
Qy 1453 TCAGGAATAGGAGCTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCCCTC 1512  
Db 478 SerArgSerGlySerIleThrGlnGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
Qy 1513 CAGAACACCCAGTGTGATGAATGGCAGTGTGTCGAGCAGCAGCGTGGGAAGACACT 1572  
Db 498 ThrGluLysLysTyrValProValAspSerThrIleGlyAsnAspThr 517  
Qy 1573 TTGTTTCTTATCCTGACACAGCAGCTCCCAATCTCTCTGGAATCCCAAGTGA 1632  
Db 518 PhePheValValThrTyrThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537  
Qy 1633 CAG-----AAGCAGGTGGCTTTAGTGGACAAA---AACACCAAAATGGCCCTACCTC 1683  
Db 538 LysLysTyrLysThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu 557  
Qy 1684 CAAATCCAGGCAATGTGAAGTTGGCACTTGGAAATACAGTCTG-----CAAGCA 1734  
Db 558 ArgIleProGlyIleAlaGluThrGlyThrTyrThrTyrSerLeuLeuAsnHisAla 577  
Qy 1735 AGCTCACAACCTTACCTGACTGCTCAGCTCCCTGGTCCCAATGCTACCTGCTCTCCA 1794  
Db 578 SerProGlnIleLeuThrValThrValThrArgAlaArgSerProThrThrProPro 597  
Qy 1795 ATTACAGTCACTTCCAAAACGAAACAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTT 1854  
Db 598 ValThrAlaThrAlaHisMetAsnGlnAsnThrAlaHisTyrProSerProValIleVal 617  
Qy 1855 TATGCAAAATATTGCGAAGGAGCCTCCCAATTTCTCAGGCGCCAGTGTACAGCCCTGATT 1914  
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuLeuGlyIleAsnValThrAlaIleIle 637  
Qy 1915 GAATCAGTGAATGGAAGAAACAGTTACTTGGAACTACTGGATAATGGACAGCTGTGAT 1974  
Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuThrAspAsnGlyAlaGlyAlaAsp 657  
Qy 1975 GCTACTAAGATGAGGCTGCTTACTCAAGTATTTTCAACACTTATGACACGAAATGGTGA 2034

Db 658 AlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArg 677  
Qy 2035 TACAGTGTAAAGTTCGGGCTCTCGGAGGAGTTAACGCGACGACGAGAGTATATCCC 2094  
Db 678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
Qy 2095 CAGCAGAGTGGAGCAGCTGATACATACCTGGCTGGATTGAGATTGATGAAATCAATGGAAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn 717  
Qy 2155 CCACCAAGACCTGAAATTAATTAAGATGATGTTCAACAACAAGCAAGTG---TGTTCACG 2211  
Db 718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736  
Qy 2212 AGACATCTCTGGAGGCTGATTTGTGGCTCTGATGCTCCAAATGCTCCCATACCTGAT 2271  
Db 737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
Qy 2272 CTCTTCCACCTGGCCAAATCACCGACCTGAAGCG-----GAAATTCACGGGGGC 2322  
Db 757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
Qy 2323 AGTCTCATTAATCTCACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTyrThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
Qy 2383 AAGTATATCATTCGAAATAGTACAGATTTCTTGTATCTCAGACAGCAAGTTCATCAATCT 2442  
Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla 812  
Qy 2443 CTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGT 2502  
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspLeuAsnPheGlu 832  
Qy 2503 TTTAAACCAAGAAAACATTACTATTTTGAATAATGGCAGATCTTTTCATTCCTTATTCAGCT 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
Qy 2563 GTTGATAAGTGTGATCTGAAATCAGAAATATCCAAATATCCAACTGACAGTATCTTTGTTAT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
Qy 2623 CTCCACAGACTCCCGCAGACAGACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880  
RESULT 10  
US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473

Db	220	GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe	233
QY	742	GCACAAACATGTTGATTCTTATAGTTGAATTCGTACAGACAAACACCAACAAAGAACT	801
Db	240	MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla	259
QY	802	CCAAACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTACTCT	861
Db	260	ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer	279
QY	862	GAGGACTTAAAGAAACCACTCTCTATGACA-----ACACAGCCACCAAAATCCCACTTC	915
Db	280	ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProProThrGlnProThrPhe	299
QY	916	TCATTGTCTGCAATTGGACAAGAAATCTGTGTTTGTAGTCTTGACCAATCTGGAAGCATG	975
Db	300	SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet	319
QY	976	CGCATGTGTAACCGCCTCAATCGACTCAATCAAGCAGCCAGCTTTTCTCTGCTCAGACA	1033
Db	320	SerSerGluAspArgLeuPheArgMetAsnGlnAlaGluLeuPheLeuIleGlnIle	339
QY	1036	GTTGAGCTGGGGTCTCGTGGTGGGATGTGACATTTGACATGCTGCCATGTCAAAAGT	1095
Db	340	IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn	359
QY	1096	GAACCTCATACAGATAAACAGTGGCAGTCACAGGCACACACTCGCCAAAAGATTACCTGCA	1155
Db	360	AsnLeuThrLysIleThrAspAspAsnValTyrGluAsnIleThrAlaAsnLeuProGln	379
QY	1156	GCAGCTTCAGAGGAGCATCTCATCTGCAGCGGGCTTCGATCGGCATTT---ACTGTGATT	1212
Db	380	GluAlaAsnGlyGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIle	399
QY	1213	AGGAAGAAATACCAACTGATGTGATCTGAAATTTGCTGTCTGACGGATGGGAAGACAA	1272
Db	400	GlnSerGlnGlnSerThrSerGlySerGlyLeuIleLeuLeuThrAspGlyGluAspAsn	419
QY	1273	ACTATAAGTGGTCTTTAACGAGGTCAAACAAAGTGGTGCATCATCCACACAGTCGCT	1332
Db	420	GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleIleHisThrIleAla	439
QY	1333	TTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAG	1392
Db	440	LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg	459
QY	1393	ACATATGCTTCAGATCAAGTTCAGAAATGGCCTCATTTGATGCTTTTGGGGCCCTTCA	1452
Db	460	PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer	477
QY	1453	TCAGGAATGGAGCTGTCTTCAGCGTCCATCCAGCTTGAGATGAGGATTAACCTC	1512
Db	478	SerArgSerGlySerIleThrGlnGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle	497
QY	1513	CAGAACAGCAGTGGATGATGGCACAGTGCATCTGTGCACACCGTGGGAAGGACACT	1572
Db	498	ThrGluLysLysThrValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr	517
QY	1573	TTGTTTCTTATCACTGGACAACGCAGCTCCCAATCTCTCTGGGATCCCAAGTGA	1632
Db	518	PhePheValValThrTrpThrIleLysLysProGluIleLeuLeuGlnAspProLysGly	537
QY	1633	CAG-----AAGCAAGTGGCTTTGTAGTGGACAAA---AACCACAAAATGGCGCTACCTC	1693
Db	538	LysLysTyrLysThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu	557
QY	1684	CAAAATCCAGCATTTGCTAAGTTGGCACCTTGAAATACAGTCTG-----CAAGCA	1734
Db	558	ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAla	577
QY	1735	AGCTCAAAACCTTGACCCCTGACTGTACGTCGCGTCCCAATGACTACCTGCCTCCA	1794
Db	578	SerProGlnIleLeuThrValThrValThrArgAlaArgSerProThrThrProPro	597



Db 160 LeuArgTrpGlyLeuPheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg 179  
 QY 562 GGAAGAAATACAGCAGTAGATGTTTCAGCAGGATTAATCTGTTACAAATCTAGTAAGAAG 621  
 Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199  
 QY 622 TGTACGGAGGAGCGTGTTCACACCAAAAGATGCACATTCAATAAAGTAACAGAGCTCTAT 681  
 Db 200 CysGlnGlyGlySerCysIleThrArgProCysArgAspSerGlnThrGlyLeuIyr 219  
 QY 682 GAAAGAGATGTGAGTTTCTTCCAAATCCCGCAGACGAGAGAGCGTTCATATAATGTTT 741  
 Db 220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239  
 QY 742 GCACAAACATGTTGATTCTATAGTTGAATCTGTACAGAACAAACACACAAAGAGCT 801  
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 QY 802 CCAACAAAGCAAAATCAAAATGCAATCTCCGAAGCACATGGAGTGAATCCGTGATTCT 861  
 Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTyrAspValIleMetAsnSer 279  
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 Db 300 SerLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319  
 QY 976 GCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTCTCTGCTGCAGACA 1035  
 Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIle 339  
 QY 1036 GTTAGCTGGGTCTCGGGTCTGGATGGTGAATTTGACAGTGTGCTGCCCATGTACAAAT 1095  
 Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
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 Db 460 PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
 QY 1453 TCAGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAACCTC 1512  
 Db 478 SerArgSerGlySerIleThrGlnGlnThrIleGlnLeuGlnSerLysAlaLeuAlaIle 497  
 QY 1513 CAGAACAGCCAGTGAATGGCAGTGATCGTGGACAGCACCGTGGGAAAGGACACT 1572  
 Db 498 ThrGluLysLysTrpValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517  
 QY 1573 TTGTTTCTTATACCTGGACAAAGCGCTCCCAAAATCTTCTCTGGATCCCAAGTGA 1632  
 Db 518 PhePheValValThrTrpThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537

QY 1633 CAG-----AAGCAAGTGGCTTTGTAGTGGACAAA---AACACCAAAATGGCTACCTC 1683  
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 QY 1684 CAAATCCCAAGGATTCGTAAGGTGGCACTTCGAAATACAGTCTG-----CAAGCA 1734  
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 Db 578 SerProGlnIleLeuThrValThrArgAlaArgSerProThrThrProPro 597  
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 Db 598 ValThrAlaThrAlaHisMetSerGlnAsnThrAlaHisTyrProSerProValIleVal 617  
 QY 1855 TATGCAAAATATTCCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCCACAGCCCTGATT 1914  
 Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle 637  
 QY 1915 GAATCAGTGAATGGAAAAACAGTTTACCTTGGAACTTACTGGATAATGGACAGGTGCTGAT 1974  
 Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
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 QY 2035 TACAGTGAAGAGTGGGGCTCTGGAGGAGTTAAACGACGACGAGGAGTAGATACCC 2094  
 Db 678 TyrSerLeuLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
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 Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn 717  
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 QY 2212 AGAACATCTCGGGAGGCTCATTTCTGCTTCTGATGTGCCAAATGCTCCCACTACTGAT 2271  
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 Db 775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
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 Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
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 Db 873 Pro-----MetProGluAspSerValPro 880



## RESULT 12

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US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 2.92e-194 Length: 905
Score: 2328.00 Matches: 465
Percent Similarity: 69.84% Conservative: 144
Best local Similarity: 53.33% Mismatches: 247
Query Match: 43.27% Indels: 16
DB: 3 Gaps: 11

US-09-049-696-20 (1-2983) x US-09-193-562D-2 (1-905)
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QY 106 AACACATGCTGTAGAGGATTCGCTTCGATCGACCCCAATGTCGACAGATGAA 165
DB 27 IleAsnAsnGlyTyrAspGlyValIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATCTCATTCACAAATAAAGACATGCTGACCCAGGCATCTCTATCTGTTGAAGCT 225
DB 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrLeuPheHisAla 66
QY 226 ACAGAAAGCGATTTATTTCAAAATGTCGATTTGATTCCTGAAACATGGAAGACA 285
DB 67 ThrLysArgValTyrPheArgAsnValSerIleLeuIleProMetThrTriLysSer 86
QY 286 AAGCTGACTATGTGAGACCAAACTTCAGACCTACAAAATGCTGATGTTCTGCTGCT 345
DB 87 LysSerGluTyrPheIleProLysGlnGluSerTyrAspGlnAlaAspValIleValAla 106
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGACGATGGGCAACTGTGGAG 405
DB 107 AsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
QY 406 AAGGTGAAAGATCCACTCCTCCTGATTCATTCATTCAGGAAAGAAAGTTAGCTGAAT 465
DB 127 LysGlyLysTyrIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyr 146
QY 466 GGACCAAGGTAGGCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTCAC 525
DB 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACAATAATGATGAGAAATTTACTATATCC---AATGGAAGAAATACAGCAGTAAGA 582
DB 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGluAlaThrArg 186
QY 583 TGTTGAGGAGGTATTTACTGGTCAAAATGATGTA---AAGAGTGTGAGGAGGAGCTGT 639
DB 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACCAAAAGATGCACATTCATTAAGTAACAGACTCTATGAAAGGATGTGAGTTT 699

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DB 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AAATGCAATCTCCGAAGCACATGGAGTAGTCCGTGATCTCTGAGGACTTTAAAGAAAACC 879
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QY 994 AATCGACTGAATCAAGCAGGCGCAGCTTCTCTGCTGCGACAGATTGAGCTGGGTCTCGG 1053
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QY 1231 GATGGATCTGAAATGTGCTGCTGACGATGGGGAAGACAACTATAAGTGGGTGCTTT 1290
DB 407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
QY 1291 AACGAGTCAACAAAGTGTGCTCATCCACAGTCGCTTTGGGGCCCTCTGCACT 1350
DB 427 GluAspValLysArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAlaAla 446
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DB 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
QY 1471 TCTCAGCGCTCATCCAGCTTGACAGTAAGGATTAACCTCCAGACAGCAGCTGGATG 1530
DB 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
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DB 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTyr 524
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DB 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544
QY 1645 GGCTTTGTAGTGGACAAA---AACACCAAAATGCGCTACCTCCAAATCCCGAGGATGCT 1701
DB 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
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DB 564

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Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266  
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Qy 880 ACTCTATGACA-----ACACAGCCACCAAAATCCACCTTCTCATTTGCTGCAGATTGGA 933  
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306  
Qy 934 CAAGAATTTGCTTTAGTCTTTAGTCTTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCTC 993  
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Db 407 SerGlySerGluIleLeuLeuThrAspGlyGluAsnGluIleAlaAsnSerCysPhe 426  
Qy 1291 AACGAGGTCAACAAAGTGTGCCATCATCCACAGTCGTTTGGGGCCCTCTGCAGCT 1350  
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446  
Qy 1351 CAAGAATCTAGAGGACTCTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAA 1410  
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAsp 466  
Qy 1411 GTTCAGAACATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCGAGAAATGGAGCTGTC 1470  
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484  
Qy 1471 TCTCAGCGCTCCATCCAGCTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATG 1530  
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504  
Qy 1531 AATGSCACAGTGATCGTGACAGACCGGTGGGAAAGGACACTTTGCTTATCATCCTGG 1590  
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524  
Qy 1591 ACAACGCGCTCCCAATCTCTCTGGGATCCAGTGGACAG-----AAGCAAGT 1644  
Db 525 ThrIleGlnLysProGluIleValLeuGlnAsnProLysGlyLysLysTyrLysThrSer 544  
Qy 1645 GCCTTTGTAGTGGCAAAA---AACACCAAAATGGCTACTCCAAATCCAGGCAATTGCT 1701  
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564  
Qy 1702 AAGGTTGGCATTGGAAATACAGTCTG-----CAAGCAGCTCAAAACCTTGACC 1752  
Db 565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThr 584  
Qy 1753 CTGACTGTACGTCCTCGCTGCTCAATGCTACCTGCTCCAAATACAGTACTGCTCCAAA 1812  
Db 585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604  
Qy 1813 ACGAACAGGACACAGCAAAATCCCGACGCTCTGTAGTATTATCAAAATATCCCAA 1872  
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624

Qy 1873 GGAGCCTCCCAATTTCTCAGGGCCAGTGTCCACAGCCCTGATTTGAATCAGTGAATGGAAA 1932  
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
Qy 1933 ACAGTTACCTTGGAACTACTGTAATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGT 1992  
Db 645 GlnValThrLeuGluLeuTrpAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664  
Qy 1993 GTTACTCAAGGTATTTCAACAATTATGACACGAATGGTAGATACATGTAAAGATGGG 2052  
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHis 684  
Qy 2053 GCTCTGGGAGGATTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACTG 2112  
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704  
Qy 2113 TACATACCTGGCTGGATTGAGAATGATAAATCAATGGAATCCACCAAGCCTGAAATT 2172  
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleIleLeuAsnProProArgProGluVal 724  
Qy 2173 AATAAGATGATTTCAACACAGCAAGTGTGTTTCAGCAGACATCTCTCGGAGGCTCA 2232  
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
Qy 2233 TTTCTGGCTTCTGATGTC---CCAAATGCTCCCATCTGATCTCTTCCACCTGGCCAA 2289  
Db 745 PheThrValSerGlyAlaProProProGlyAsnHisProSerValPheProProSerLys 764  
Qy 2290 ATCAACGACCTGAAGCGGAAATTCACGGGGCGAGTCTCAATTAATCTGACTTGGACAGCT 2349  
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTyrThrAla 783  
Qy 2350 CCTGGGATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAGT 2409  
Db 784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803  
Qy 2410 ATTCTTGATCTCAGACCAAGTCTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATC 2469  
Db 804 PheMetAspArgGlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIle 823  
Qy 2470 CCAAGGAAGCAACTCTGAGGAAGTCTTTTGTTTAAACCAAGAAAACATTTACTTTTCAA 2529  
Db 824 ProLysGluAlaGlySerLysGluAsnPheGluPheLysProGluHisPheArgValGlu 843  
Qy 2530 AATGSCACAGATCTTTTCATTCGCTATTCAGGCTGTGATAAGTGCATCTGAAATCAGAA 2589  
Db 844 AsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGlu 863  
Qy 2590 ATATCCACATTTGCACGAGTATCTTTGTTTATTCCT 2625  
Db 864 ValSerHisIleValGlnAlaIleLysPheIlePro 875

## RESULT 14

US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PKT  
; ORGANISM: Mus musculus  
US-09-193-562D-34

## Alignment Scores:

Pred. No.: 5,89e-194 Length: 902  
 Score: 2324.50 Matches: 479  
 Percent Similarity: 67.90% Conservative: 143  
 Best Local Similarity: 52.29% Mismatches: 257  
 Query Match: 43.21% Indels: 37  
 DB: 3 Gaps: 15

US-09-049-696-20 (1-2983) x US-09-193-562D-34 (1-902)

QY 25 ATGGGGCCATTTAAAGAGTCTCTGTTCATCTTCACTTCTCAAGAGGGGCCCTG 84  
 Db 1 MetValProGlyLeuGlnValLeuLeuPheLeuThrLeuHisLeuLeuGlnAsnThr--- 19  
 QY 85 AGTAATTCACCTCATTCAGCTGAACAAATGCTATGAAGGCATGTCTTCATTCGAC 144  
 Db 20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValLeuAlaLeu 39  
 QY 145 CCAATGTGCGAAGATGAACACATCAATCAACAAATAAGGACATGGTGACCCAGGCA 204  
 Db 40 ProSerValProGluAspGluArgLeuLeuProSerLeuLysGluMetValThrGlnAla 59  
 QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTCCCATTTG 264  
 Db 60 SerThrTyrLeuPheGluAlaSerGlnGlyArgValTyrPheArgAsnLeuSerLeu 79  
 QY 265 ATTCTGAAACATGAAGACAAAGCTGACTATGTGACACAAAACTTGAGACCTACAA 324  
 Db 80 ValProMetThrTrpLysSerLysSerGlnTyrLeuMetProLysArgGluSerTyrAsp 99  
 QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384  
 Db 100 LysAlaAspValLeuValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeu 119  
 QY 385 CAGATGGCCAACTGTGGAGAGAGGCTGAAGGATCCACTCTCTGATTTCAATTGCA 444  
 Db 120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrHisPheThrProAsnPheLeuLeu 139  
 QY 445 GGAATAAAGTTAGCTGAATATGGACCAAGTAGGCTATTTGTCATGAGTGGGCTCAT 504  
 Db 140 ThrAspAsnLeuArgLeuTyrGlyProArgGlyArgValPheValHisGluTrpAlaHis 159  
 QY 505 CTACATGGGAGATTTGACGAGTACAAATATGATGAGAAATTTCTACTATCC---AAT 561  
 Db 160 LeuArgTrpGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSerArgLys 179  
 QY 562 GGAAGAATACAGCAGTAAGATGTTCCACAGGATTTACTGTACAAATGATGTAAGAG 621  
 Db 180 AsnThrIleGluAlaThrArgCysSerAlaSerIleThrGlyLysLysValValHisGlu 199  
 QY 622 TGTGAGGAGGAGCTGTTTACACCAAAAGATGCCACATTTCAATAAAGTAACAGGACTTAT 681  
 Db 200 CysGlnArgGlySerCysValThrArgAlaCysArgArgAspSerLysThrArgLeuTyr 219  
 QY 682 GAAAAGGATGTGAGTTGTTCTCCAATCCCGCAGAGGAGAGGCTTCTATATGTTT 741  
 Db 220 GluProLysCysThrPheIleProAspLysIleGlnThrAlaGlyAlaSerIleMetPhe 239  
 QY 742 GCACAAATGTGATTTCTATAGTTGAATTCGTACAGACAAACCAACCAAGAGCT 801  
 Db 240 MetGlnAsnLeuAsnSerValValGluPheCysThrGluAsnAsnHisAsnAlaGluAla 259  
 QY 802 CCAACAAAGCAAAATCAAAATGCAATCTCCGAGACATGGGAGTATGATCCGATTTCT 861  
 Db 260 ProAsnLeuGlnAsnLysMetCysAsnArgSerThrTrpAspValIleLysThrSer 279  
 QY 862 GAGACATTTAAGAAAACCATCTCTATG-----ACAACAGCCCAACCAATCCACCTTC 915  
 Db 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299  
 QY 916 TCATTGCTGAGATTGGCAAAAGATTTGTGTTTGTCTTCTGCAAAATCTGAGAGCATG 975  
 Db 300 TyrLeuLeuLysSerArgArgArgValValCysLeuValLeuAspLysSerGlySerMet 319

QY 976 GCGACTGTAAACGGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGTCGACACA 1035  
 Db 320 AspLysGluAspArgLeuLeuArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339  
 QY 1036 GTTGAGCTGGGCTCTGGGATGGTGCATTTGACATTTGACAGTGTGCTCCCATGTACAAAGT 1095  
 Db 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359  
 QY 1096 GAACTCATACAGATAAACAGCTGCGCAGTGCACAGGACACACTGCCCAAAAGATTACCTGCA 1155  
 Db 360 TyrLeuIleLysIleThrSerSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379  
 QY 1156 GCAGCTTCAGAGGAGCAGCTCCATCTGCAGCGGCTTCGATCGCATTTACTGTGATTAGG 1215  
 Db 380 GlnAlaSerGlyGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399  
 QY 1216 AAGAAA---TATCCAACTGATGATCTGAAATTTGCTGCTGACGATGGGGAAGACACAC 1272  
 Db 400 SerSerAspGlnSerThrSerGlySerGluLeuValLeuLeuThrAspGlyGluAspAsn 419  
 QY 1273 ACTATAAGTGGTGTCTTTAACGAGCTCAAAAGTGGTGGCTCATCATCCACAGCTCGCT 1332  
 Db 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleHisThrIleAla 439  
 QY 1333 TTGGGGCCCTCTGCAGCTCAAGACTAGAGAGCTGTCCAAATGACAGGAGTTTACAG 1392  
 Db 440 LeuGlyProSerArgAlaArgLeuLeuThrLeuSerAspMetThrGlyGlyLeuArg 459  
 QY 1393 ACATATGCTTCAGATCAAGTTTCAGAACAATGGCTCATTTGATGCTTTTGGGCCCTTTCA 1452  
 Db 460 PheTyrAlaAsnLysAspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSer 477  
 QY 1453 TCAGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAGGATTAACCCCTC 1512  
 Db 478 SerThrSerGlySerValSerGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497  
 QY 1513 CAGAACACCCAGTGGATGAATGGCACAGTGTCTGGACAGCACCGTGGGAAAGGACACT 1572  
 Db 498 ArgAlaGlyAlaTrpIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517  
 QY 1573 TTGTTTCTTATCAGCTGGACAAACGAGCTCCCAAAATCTCTCTGCGATCCAGTGA 1632  
 Db 518 PhePheValIleThrTrpMetValLysProGluIleIleLeuGlnAspProLysGly 537  
 QY 1633 CAGAAG-----CAAGGTGGCTTTGTAGTGACAAAA---AACACCAAAATGGCTTACCTC 1683  
 Db 538 LysLysTyrThrThrSerAspPheGlnAspAspLysLeuAsnIleArgSerAlaArgLeu 557  
 QY 1684 CAAATCCAGGCATTTGTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGC---TCA 1740  
 Db 558 GlnIleProGlyThrAlaGluThrGlyThrTrpThrTyrSerTyrThrGlyThrLysSer 577  
 QY 1741 CAAACCTTGACCCCTGACTGTACAGTCCCGTCCCAATGTACCTGCTCCCAATTACA 1800  
 Db 578 GlnLeuIleThrMetThrValThrThrArgAlaArgSerProThrMetGluProLeuLeu 597  
 QY 1801 GTGACTTCCAAAACGAACAGGACACCAAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCA 1860  
 Db 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617  
 QY 1861 AATATTGCCCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCAAGCCCTGTGTTGTAATCA 1920  
 Db 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637  
 QY 1921 GTGAATGAAAAACAGTTACTTGGAACTACTGGATAATCGACAGAGTGTGTGATGTACT 1980  
 Db 638 GluHisGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAspIleVal 657  
 QY 1981 AAGATGACCGGTCTTACTCAAGGTATTTCACAACTTATGACACGAATGTTAGATACAGT 2040  
 Db 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677

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QY 2041 GTAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGAGAGTG-----ATA 2091
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
678 LeuLysValArg-----ValGlnAlaGlnArgAsnLysThrArgLeuSerLeu 693
QY 2092 CCCAGCAGAGTGAGCAGCTGTACATACCTGGCTGGATTGAGATGATGAATACAATGG 2151
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
694 ArgGlnLysAsnLysSerLeuTyrIleProGlyTyrValGluAsnGlyIleValLeu 713
QY 2152 AATCCACAGACTGAAATTAATPAGGATGATGTTCAACAACAGCAAGTGTTTCAGC 2211
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
714 AsnProArgProAspValGlnGluAlaIleGluAlaThrValGluAspPheAsn 733
QY 2212 AGACATCCTCGGAGGCTATTTCTGGCTCTGATGTCCTCAATGCTCCCATCCTGAT 2271
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
734 ArgValThrSerGlySerPheThrValSerGlyAlaPro-----ProAsp 749
QY 2272 -----CTCTCCCACTGGCCAAATCAACCGACCTGAAGCGGAAATTCAC 2316
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
750 GlyAspHisAlaArgValPheProProSerLysValThrAspLeuGluAlaGluPheIle 769
QY 2317 GGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTGGGGATGATTATGACCATGGAACA 2376
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
770 --GlyAspTyrIleHisLeuThrTriphThrAlaProGlyLysValLeuAspAsnGlyArg 788
QY 2377 GCTCACAGTATATCATTCGAATAGTACAGATATCTTGATCTCAGACAGATTCAT 2436
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
789 AlaHisArgTyrIleIleArgMetSerGlnHisProLeuAspLeuGlnGluAspPheAsn 808
QY 2437 GAATCTCTCAAGTGAATACTACTCTCATCCCAAGGAAGCAACTCTGGAAGATC 2496
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
809 AsnAlaThrLeuValAsnAlaSerSerLeuIleProLysGluAlaGlySerLysGluAla 828
QY 2497 TTTTGTGTTAAACGAGAAAACATTACTTTTGAATGCGCAGATCTTTTCATGCTATT 2556
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
829 PheLysPheLysProGluThrPheLysIleAlaAsnGlyIleGlnLeuTyrIleAlaIle 848
QY 2557 CAGGCTGTGTAGTTCGATCTGAATCAGAAATATCCAACTGACGAGTATCTTTG 2616
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
849 GlnAlaAspAsnGluAlaSerLeuThrSerGluValSerAsnIleAla----- 864
QY 2617 TTTATTCTCCACAGACTCCGCGCAGACACCTAGTCTGCTGAAACGCTGCTCTTGT 2676
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
865 -----GlnAlaValLysLeuThrSerLeuGluAspSerIleSerAlaLeuGly 880
QY 2677 CCTAATATTCAT--ATCAACAGCAGCACTTCCTGGCATTCACATTTTA 2721
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
881 AspAspIleSerAlaIleSerMetThrIleTrpGlyLeuThrValIle 896

RESULT 15
US-10-055-412B-34
; Sequence 34, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/09/193,562
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/10/055,412B
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-055-412B-34

Alignment Scores:
Pred. No.: 5,89e-194 Length: 902
Score: 2324.50 Matches: 479

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Percent Similarity: 67.90% Conservative: 143
Best Local Similarity: 52.29% Mismatches: 257
Query Match: 43.21% Indels: 37
DB: 4 Gaps: 15

US-09-049-696-20 (1-2983) x US-10-055-412B-34 (1-902)

QY 25 ATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGTGTTCTTACCTCTTAGAAGGGGCCCTG 84
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1 MetValProGlyLeuGlnValLeuPheLeuThrLeuHisLeuGlnAsnThr--- 19
QY 85 AGTAATTCACTCTACAGTGAACAATGGCTGATGAAGGCATTTGCTTGCAATGCAC 144
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValIleAlaIleAsn 39
QY 145 CCCAATGTGCCAGAGATGAACAACACTCATTCACAATAAAGGACATGGTACCAGGCA 204
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
40 ProSerValProGluAspGluArgLeuIleProSerIleLysGluMetValThrGlnAla 59
QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAGCGATTATTTTCAAAAATGTTGCCATTTTG 264
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
60 SerThrTyrLeuPheGluAlaSerGlnGlyArgValTyrPheArgAsnIleSerIleLeu 79
QY 265 ATTCTCTGAAACATCGAAGACAAAGCGCTACTATGTGAGACCACAAACCTTGAGACCTTACAAA 324
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
80 ValProMetThrTrpLysSerLysSerGluTyrLeuMetProLysArgGluSerTyrAsp 99
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCTCAGGTAATGATGAACCCCTACACTGAG 384
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
100 LysAlaAspValIleValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeu 119
QY 385 CAGATGGCACTCTGGAGAGAGGGTCAAGAGTCCACCTCCTCCTGATTTCATTGCA 444
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139
QY 445 GGAATAAGTAGCTGAATATGACCAACCAAGTAGGCGATTGTCCTCAGTGGGCTCAT 504
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
140 ThrAspAsnLeuArgIleTyrGlyProArgGlyArgValPheValHisGluTrpAlaHis 159
QY 505 CTACGATGGGAGTATTTGACGAGTACATAATGATGAGAAATTTCTACTTATCC---AAT 561
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
160 LeuArgTrpGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSerArgLys 179
QY 562 GGAAGATACAGCAGTAAAGTGTTCACGAGTATTACTGTCACAAATGACTAAGAG 621
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
180 AsnThrIleGluAlaThrArgCysSerAlaSerIleThrGlyLysValValHisGlu 199
QY 622 TGTCAAGGAGGCGAGCTGTTACACCAAAAGATGCACATTCAATAAAGTAACGAGACTCTAT 681
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
200 CysGlnArgGlySerCysValThrArgAlaCysArgArgAspSerLysThrArgLeuTyr 219
QY 682 GAAAAGGATGTGATTTGTTCTCCAATCCCGCAGACGAGAGAGGCTTCTATATGTTT 741
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
220 GluProLysCysThrPheIleProAspLysIleGlnThrAlaGlyAlaSerIleMetPhe 239
QY 742 GCACAACTGTTGATTTCTATAGTTCAATTCGTACAGACAAACACCAACAAAGAGCT 801
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
240 MetGlnAsnLeuAsnSerValValGluPheCysThrGluAsnAsnHisAsnAlaGluAla 259
QY 802 CCAACAAGCAAAATCAAAAATGCAATCTCCGAGCAGCATGGGAAGTATCGTGATTCT 861
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
260 ProAsnLeuGlnAsnLysMetCysAsnArgArgSerThrTrpAspValIleLysThrSer 279
QY 862 GAGGACTTTTAAAGAAAACCATCTCTATG-----ACAAACAGCCACCAAAATCCCACTTC 915
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299
QY 916 TCATTGCTGCAGATGGCAAGAAATCTGTGTTTAGTCTTGTGCAAAATCTGGAGCATG 975
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
300 TyrLeuLeuLysSerArgArgValValCysLeuValLeuAspLysSerGlySerMet 319
QY 976 GCGACTGTGTAACCGCTCAATTCGACTGAATCAAGCAGGCGCAGCTTTTCTCTGTCGAGACA 1035
Db :||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Db 320 AsplysGluAspArgLeuileArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339  
QY 1036 GTTGAGCTGGGTCTCGGATGGGATGACATTTGACAGTCTGCCCATGATGACAACT 1095  
Db 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359  
QY 1096 GAACCTATACAGATAAAGTGGCAGTGCAGGGACACACTCGCCAAAAGATTACCTGCA 1155  
Db 360 TyrLeuIleLysIleThrSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379  
QY 1156 GCAGTCTCAGGAGGACGTCATCTGCACGGGCTTCGATCGGCATTACTGTGATTAGG 1215  
Db 380 GlnAlaSerGlyGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399  
QY 1216 AAGAAA---TATCCAACTGATGATCTGAAATTTGCTGCTCAGCGATGGGAGACACAC 1272  
Db 400 SerSerAspGlnSerThrSerGlySerGluIleValLeuLeuThrAspGlyGluAspAsn 419  
QY 1273 ACTATAAGTGGGTGTTTAAACGAGGTCAACAAAGTGTGCCATCATCCACACAGTCGCT 1332  
Db 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleIleHisThrIleAla 439  
QY 1333 TTGGGGCCCTCGCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAG 1392  
Db 440 LeuGlyProSerArgAlaArgGluLeuGluThrLeuSerAspMetThrGlyGlyLeuArg 459  
QY 1393 ACATATGCTTCAGATCAAGTTCAGAAACAAATGCCCTCATTTGATGCTTTTGGGCCCTTCA 1452  
Db 460 PheTyrAlaAsnLysAspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSer 477  
QY 1453 TCAGAAATGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGTGAAGGATTAACCCCTC 1512  
Db 478 SerThrSerGlySerValSerGlnGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497  
QY 1513 CAGAACCCAGTGCATGAATGCGCAGTGCATGCGGACAGCAGCGTGGGAAAGACACT 1572  
Db 498 ArgAlaGlyAlaIleIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517  
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QY 2272 -----CTCTCCACCTGGCCAAATCACCAGCCTGAAGCGGAAATTCAC 2316  
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GenCore version 5.1.6  
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Run on: October 15, 2004, 16:09:40 ; Search time 305.918 Seconds  
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6305.350 Million cell updates/sec

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Perfect score: 5380

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Searched: 1360919 seqs, 323318874 residues

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Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	ID	Description
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Alignment Scores:

Pred. No.:	0	Length:	925
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Percent Similarity:	100.00%	Conservative:	0

#### ALIGNMENTS

##### RESULT 1

US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No. US20020168711A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PT32

; CURRENT APPLICATION NUMBER: US/09/764,868

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - refer to PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1510

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 635

; LENGTH: 925

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-764-868-635

Best Local Similarity:	100.00%	Mismatches:	0
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QY	181	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAAGCGATT	240
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QY	241	TATTTCAAAATGTTGCCATTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	300
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QY	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTGTGCTGAGTCTACTCTCCA	360
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QY	361	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAGGATC	420
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QY	481	GCATTTGCCATGAGTGGCTCATCTACGATGGGAGTATTGACGAGTACATAATGAT	540
DB	164	AlaPheValHisGluThrAlaHisLeuArgTyrGlyValPheAspGluTyrAsnAsnAsp	183
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QY	661	AATAAGTAAACAGGACTCTATGAAAAGAGTGTGATTTGTTCTCCAATCCCGCAGAG	720
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QY	721	GAGAGGCTTCTATATGTTTGCAACAATGTTGATTTCTATAGTTGAATTTGTGACAGAA	780
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DB	264	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	283
QY	841	TGGGAAGTATCCGTTGTTCTGAGGACTTTAGAAAACCCACTTATGACACACAGCCA	900
DB	284	TrpGluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro	303
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DB	304	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	323
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QY	1021	TTCTCTCTCGACACAGCTTGGGCTCTGGGTTGGAGTGTGATTCATTTGACAGTGT	1080
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; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: Patent In Ver. 3.0
; SEQ ID NO 6248
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; TYPE: PRT
; ORGANISM: Homo sapiens
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Alignment Scores:
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QY 601 GGTACAAATGTAGTAAAGAGTCTCAGGAGGACCTGTTACACCAAAAGATGCACATTC 660
Db 204 GlyThrAsnValValLysLysCysGlnGlySerCysTyrThrLysArgCysThrPhe 223
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## RESULT 3

US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US2001002509A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guesler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34

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; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-8

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Score: 4759.00       Matches: 914
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 88.46%      Indels: 0
DB: 9                  Gaps: 0

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US-09-049-696-20 (1-2983) x US-09-823-356-8 (1-914)

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QY 145 CCCAATGTCGCGAGAGATGAACACATCATTCACAAATAAAGACATGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTTTGAAGCTACAGAAAGCGATTTATTTCAAAAATGTTGCCATTTG 264
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QY 265 ATTCTGAAACATGGAAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
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QY 385 CAGATGGGCAACTGTGAGAGAGGTTGAAGATCCACTCACTCTCTGATTTCTATGCA 444
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Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
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Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
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Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
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## RESULT 4

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; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Laeak, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192
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Score: 4759.00 Matches: 914
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Best Local Similarity: 100.00% Mismatches: 0
Query Match: 88.46% Indels: 0
DB: 9 Gaps: 0
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US-09-049-696-20 (1-2983) x US-09-981-353-192 (1-914)

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QY 925 CAGATTGGACAAAGATTGTGTGTAGTCTCTGACAAATCTGGAAGCATGGCACTGGT 984  
DB 301 GlnIleGlyGlnAlaGlyLeuValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
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DB 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
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DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGAGTGTCCAAATGACAGAGGTTTACAGACATATCTCTCA 1404  
DB 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTCAGAACTGGCTCATGTGCTTTGGGGCCCTTTCATCAGGAATGGA 1464  
DB 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGATGAAGGATTAACTCCAGAACAGCCAG 1524  
DB 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATGAATGGCACAGTGTGATGTGACACACCGTGGGAAAGGACACTTTGTTCTTATC 1584  
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DB 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GGCTTTGTAGTGGACAAACCAAAATGGCTTACTCCAAATCCAGGCATTGCTAAG 1704  
DB 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGAATACAGTGTGCAAGCAAGCTGCAAACTTGACCTGACTGTACAG 1764  
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCCGTGGCTCAATGCTACCTGCTCCCAATACAGTCACTTCCAAACAGCAGGAC 1824  
DB 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATTCGCCGCTCTGGTAGTTTATGCAAAATATTCGCAAGAGCCTCCCA 1884  
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGCGCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACTTG 1944  
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGATTAATGGACAGAGTGTGCTGCTACTAAGATGACCGTGTCTACTCAAGG 2004

DB 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACAACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGGGCTCTGGAGGA 2064  
DB 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAACGACGACGACGAGAGTGTATACCCAGCAGAGTGTGAGCAGTGTACATACCTGGC 2124  
DB 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATGAATACAAATCGAATCCCAACAGCTGAAATTAATGAAGATGAT 2184  
DB 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAAAGCAAGTGTGTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCT 2244  
DB 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGTCTCCATACCTGATCTCTCCACCTGGCCAAATCACCAGCCTGAAG 2304  
DB 741 AspValProAsnAlaIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
QY 2305 CGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGAGTATAT 2364  
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QY 2365 GACATGGAAACAGCTCACAGTATATCATTCGAATAGTACAGTATCTTGTGATCTCAGA 2424  
DB 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAGTTCAATGATCTCTTCAAGTGAATACTCTGCTCTCATCCCAAGAGAACCCAAAC 2484  
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DB 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCCGCGACAGACACCTAGTCTCTCATCAACG 2664  
DB 861 ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
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QY 2725 ATTATGTGAAGTGTAGTAGAGAACTGCAGCTGTCAATAGCC 2766  
DB 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 5

US-09-833-245-2054  
; Sequence 2054, Application US/09833245  
; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF546PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229,358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256,931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199,384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 88.46% Indels: 0
DB: 11 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-833-245-2054 (1-914)

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Db 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20

QY 85 AGTAATTCACTCATTCAGCTGAACAAATGGCTATGAAGGCATTCTCGTTCGAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGTGCCAAGAGATGAACACTCACTTCAACAAATAAAGACATGGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTCTTTGAAGCTACAGGAAGCCGATTATTATTTCAAAATGTTGCCATTGG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCCTGAAACATGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATGTTCTGGTCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGCAACTGTGGAGAGAGGTGAAGATCCACCTCACTCTCGATTTCATTGCA 444
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140

QY 445 GCAAAAAAGTTAGCTGAATATCGACCAAGATGAGCATTTGTCCATGAGTGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160

QY 505 CTACATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTATCCCAATGGA 564
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

QY 565 AGAATACAGCAGTAAGATGTTACAGCGTATTACTGGTACAAATGTAGTAAAGAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200

QY 625 CAGGAGGCAGCTGTTACACCAAAAGATGCACATTCAATAAGTAAACAGGACTCTATGAA 684
Db 201 GlnGlyLysCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220

QY 685 AAAGATGTGAGTTGTTCTCCAATCCCGCAGACGGAAGGCTTCTATATGTTTGA 744
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QY 745 CAACATGTGATTCTATAGTTGAATTCGTACAGACCAAAACCACAAAGAGAGCTCCA 804
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QY 805 AACAGCAAAATCAAAATGCAATCTCCGAAAGCACATGGGAAGTGCATCCGTGATTCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280

QY 865 GACTTTAAGAAAACCACTCTATGACAAACACAGCCACCAAAATCCCACTTCTCATGCTG 924
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QY 985 AACCGCTCAATCGACTGAATCAAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044
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QY 1045 GGTCTCTGGTGGGATGCTGACATTGACAGTGTGCCCATCTACAAAGTCAACATGCA 1104
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeu 360
QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTACTCGACAGCTTCA 1164
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380
QY 1165 GGAGGACGCTCCATCTGCGAGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAATAT 1224
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400
QY 1225 CCAACTGATGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTATAGTGG 1284
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QY 1285 TGCTTTAAGCGGTCAAAAGTGTGCTCATCATCCACAGTGTGCTTTGGGGCCCTCT 1344
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
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QY 1465 GCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAAACCTCCAGAACCCAG 1524
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500
QY 1525 TGGATGAATGSCACAGTGTATGTCAGACAGCACCCTGGGAAAGGACACTTTGTTCTTATC 1584
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520
QY 1585 ACCTGGCAACGCGACGCTCCCAATCTCTCTGGGATCCAGTGGACAGACGACGCAAGT 1644
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QY 1765 TCCCGTGGCTCCAATGTCTACCTCGCTCCAATTTACAGTACTTCAAAACGAAACAAAGGAC 1824
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Db 621 IleuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640
QY 1945 GAATCTGATTAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004
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Qy      2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGGAGGA 2064
Db      661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValIysValArgAlaLeuGlyGly 680
Qy      2065 GTTAAACGACGACGACGAGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGC 2124
Db      681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
Qy      2125 TGGATTGAGATGATGAAATACATCAATCAATCCACAGACCTGAAATTAATAAGGATCAT 2184
Db      701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
Qy      2185 GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCT 2244
Db      721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
Qy      2245 GATGTCCTCAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAG 2304
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Qy      2305 GCGCAAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGGATCATTTAT 2364
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Qy      2365 GACCATGGAAACAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTGATCTCAGA 2424
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Db      821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
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Qy      2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCGCCAGACACCTAGTCTCTGATGAACG 2664
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RESULT 6
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914

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; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26
Alignment Scores: 0 Length: 914
Pred. No.: 0 Matches: 914
Score: 4759.00 Conservative: 0
Percent Similarity: 100.00% Mismatches: 0
Best Local Similarity: 100.00% Indels: 0
Query Match: 88.46% Gaps: 0
DB: 14

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Db      21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
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Qy      265 ATTCCTGAAACATCGAAGACAAAGCGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
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Qy      325 AATGCTGATGTTCTGGTGTGCTGACTCTCTCCTCAGGTAATGATGAACCTTACTGAG 384
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Qy      805 AACAGCAAAATCAAAAATGCAATCTCCGAAGCACATCGGAAGTGCATCCGTCATTCTGAG 864
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Qy      865 GACTTTTAAAGAAAACCACTCTTATGACAAACACAGCCACCAAAATCCCACTTCTCATGTG 924
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QY 1705 GTTGGCCTTGGAAATACAGTCTCAGCAAGCTCAAAAACCTTGACCTGCTCAG 1764  
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QY 1765 TCCCGTGGCTCAATGCTACCTCGCTCCATTTACAGTACAGTCTCCAAACCAAGGAC 1824  
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QY 1825 ACCAGCAATTCCTCCAGCCCTCTGGTAGTTTATGCAATATTCGCCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnileArgGlnGlyAlaSerPro 620  
QY 1885 ATTTCTAGGGCCAGTGTACAGCCCTGATGAATCAGTGAATGAGAAACAGTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuileGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGGATAATGAGCAGGTGCTGATCTACTAAGATGACGGTGTCTACTCAAG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660

QY 2005 TATTTCAACATTTATGACACGATGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAACGACGACGAGAGTGTATACCCACGACGAGTGGAGCACTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgArgValileProGlnGlnSerGlyAlaLeuTyrileProGly 700  
QY 2125 TGGATTGAATGATGAATACAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGATGAT 2184  
Db 701 TrpIleGluAsnAspGluileGlnTrpAsnProProArgProGluileAsnLysAspAsp 720  
QY 2185 GTTCAACCAACGAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAAATGCTCCCATACCTCTCTTCCACCTGGCCAAATCACCCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnileThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGGAGTCTCTAATCTGACTTGGACAGCTCTCGGAGTATGATTAT 2364  
Db 761 AlaGluileHisGlySerLeuileAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAAATCTTCTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrileileArgileSerThrSerileLeuAspLeuArg 800  
QY 2425 GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTCTCTCATCCAAAGGAAGCCAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuileProLysGluAlaSer 820  
QY 2485 TCTGAGGAGTCTTTTGTGTTTAAACCAAGAAACATTTTGTGAAAAATGGCACAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnileThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCAATGCTATTTCAGGCTGTTGATAAGTCCGATCTGAAATCAGAATATCCAACATTGCA 2604  
Db 841 PheileAlaileGlnAlaValAspLysValAspLeuLysSerGluileSerAsnileAla 860  
QY 2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCCGCCAGACACCTAGTCTCTGATCAAAAG 2664  
Db 861 ArgValSerLeuPheLeuProGlnThrProProGlnThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTGCTCTAATATTCATATCAACAGCACCATTCTCTGGCAATTCATTTTAAA 2724  
Db 881 SerAlaProCysProAsnileHisileAsnSerThrileProGlyileHisileLeuLys 900  
QY 2725 ATTATGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerileAla 914

## RESULT 7

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT

ORGANISM: Homo sapiens  
US-10-060-255-42

## Alignment Scores:

Pred. No.: 0 Length: 914  
Score: 4759.00 Matches: 914  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 88.46% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-060-255-42 (1-914)

QY 25 ATGGGGCCATTAGAGTTCTGTGTTCTCATCTTGATCTTACCTTCTAGAGGGGCCCTG 84  
Db 1 MetGlyProPheLysSerValPheIleuIleuHisLeuLeuGluGlyAlaLeu 20  
QY 85 AGTAATTCACCTCATTGAGTCAACCAATGGCTATGAAGCATTGTCTGTGCAATCGAC 144  
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleasp 40  
QY 145 CCCAATGTCCAGAGATGAACACTATTCAACAATAAAGGACATGGTGACCCAGGCA 204  
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60  
QY 205 TCTCTGTATCTGTTGAGCTACAGGAAGGATTTTATTTCAAAATGTTGCCATTTTG 264  
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80  
QY 265 ATTCTGAAACATGGAACAAAGGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100  
QY 325 AATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGTAATGATGAACCCCTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
QY 385 CAGATGGCACTGTGGAGAGAGGTTGAAGGATCCACCTCCTCCTGATTCTATTGCA 444  
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAAAAAGTAGCTGAATATGACACCAAGTAGGCTATTGTCCATGAGTGGGCTCAT 504  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
QY 505 CTACGATGGGAGTATTTACAGAGTACAAATATGATGAGAAATTTACTTTATCCAAATGCA 564  
Db 161 LeuArgTyrGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180  
QY 565 AGAATACAGCAGTAAAGTTTCAGAGTATTTACTGTTACAAATGTAGTAAGAAGTGT 624  
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
QY 625 CAGGAGGCGAGCTGTACACCAAAAGATGCACATTCAATAAAGTAAACAGGACTTATGAA 684  
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
QY 685 AAAGGATGTGATTTGTTCTCCAAATCCCGCCAGACGAGAGGCTTCTATAATGTTTGA 744  
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY 745 CAACATGTTGATCTATAGTTGAAATTTCTGTACAGAACCAAAACACCAAGAGCTCCA 804  
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGCAGATGGGAAGTGCATCCGTGATCTGAG 864  
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAAGAAACCACTCTTATGACACACAGCCACCAAAATCCCACTTCTCATTTGCTG 924  
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300

QY 925 CAGATTGGACAAAGAAATTGTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGGCAGCTGT 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGTCTGCAGACAGTGTAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTCTGGGTGGGATGGTGCACATTTTGCAGAGTCTGCCCATGTACAAAGTGAATCATA 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY 1105 CAGATAAACAGTGGCAGTGCAGGGGACACACTCCGCCAAAAGATTACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380  
QY 1165 GGAGGACGTCCATCTGCAGGGGCTTCGATCGGCATTTTACTGTATTAGGAAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCAACTGATGGATCTGAAATTTGCTGCTGACGATGGGGAAGACACACTATAAGTGGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTAAACAGAGTCAAAACAAAGTGGTGCCTCATCCACACAGTCGCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA 1404  
Db 441 AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTCAGAACATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATAATG 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAG 1524  
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATGAATGGCACAGTGCATCGTGACAGCACCGTGGGAAAGGACACTTGTCTTCTTATC 1584  
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY 1585 ACCTGGACACGCGACCTCCCAATCTCTCTGGATCCAGTCCAGTGCAGAGCAAGCAAGT 1644  
Db 521 ThrTrpThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GCTTTGTAGTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGCATTTGGAATACAGTCTGCAAGCAGCTCAGAACTTCCAACTGACTGTCTCAG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGTGTGCTCAATGCTACCTGCTCCATTCAGTCACTTCCAAACAGCAAGCAAGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATCCCGAGCCCTCTGTGTAGTTTATGCAAAATATTCGCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTCCACGCCCTGATTGAATCAGTGAATGGAAAAACAGTTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGGAATAATGGAGCAGGCTGCTGATCTACTACTAGGATGACGGTGTCTCTCAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTTCAACAACCTTATGACACGAATGGTAGATACAGTGTAAAAAGTGGGGCTCTGGGAG 2064

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Db      661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValIysValArgAlaLeuGlyGly 680
QY      2065 GTTAACGACGACGAGAGTGATACCCGACAGAGTGGACACTGTACACTGCGC 2124
Db      681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY      2125 TGGATTGAGAATGATGAATACAAATGAATCCACCAAGACCTGAAATTAATAGGATGAT 2184
Db      701 TPIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnIysAspAsp 720
QY      2185 GTTCAACACAGCAAGTGTGTTTCACAGAAATCTCCGAGGCTCATTTGTGGTTCT 2244
Db      721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlySerPheValAlaSer 740
QY      2245 GATGTCCCAAAATGCTCCCATACCTCATCTCTCCACCTGCGCAATCACCCACCTGAG 2304
Db      741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuIys 760
QY      2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGACAGCTCTCCGGGATGATTAT 2364
Db      761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpAlaProGlyAspAspTyr 780
QY      2365 GACCATGGAACGCTCACAGTATATCATCGAATAAGTACAAATGATTTCTGATCTCAGA 2424
Db      781 AspHisGlyThrAlaHisIysTyrIleAlaGlySerThrSerIleLeuAspLeuArg 800
QY      2425 GACCAAGTTCGAATGATCTCTCAAGTACTACTGCTCTCATCTCCCAAGAACCAAC 2484
Db      801 AspIysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProIysGluAlaAsn 820
QY      2485 TCTGAGGAGTCTTTTGTGTTTAAACCAAGAAACATTTCTTTTGAATAAGGACAGATCT 2544
Db      821 SerGluGluValPheLeuPheIysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY      2545 TTCATTGCTATTCAGCTGTGATTAAGTGCATCTGAATCAGAAATATCCAACATTCGA 2604
Db      841 PheIleAlaIleGlnAlaValAspIysValAspLeuIysSerGluIleSerAsnIleAla 860
QY      2605 CGAGTATCTTTGTTTATTCCTCCACAGACTCGCCAGAGACACTAGCTGATCAAGACG 2664
Db      861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880
QY      2665 TCTGCTCTTCTCTCTTAATTCATATCAACAGCACCATTCCTGCGATTCAACATTTAAA 2724
Db      881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuIys 900
QY      2725 ATTATGCGAAGTGAAGGAGAACTGCACTGCTGCTCAATAGCC 2766
Db      901 IleMetTrpIysTrpIleGlyGluLeuGlnLeuSerIleAla 914

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## RESULT 8

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US-09-922-217-1066
; Sequence 1065, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03

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; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

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Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4756.00 Matches: 913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.80% Mismatches: 0
Query Match: 88.40% Indels: 0
DB: 9 Gaps: 0

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US-09-049-696-20 (1-2983) x US-09-922-217-1066 (1-914)

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QY      25 ATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATCTTCACCTTCTAGAAGGGCCCTG 84
Db      1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY      85 AGTAATTCACCTCATTCAGCTGAACCAACAATGGCTATGAAGCATTTGTCCTTCAATCGAC 144
Db      21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleASP 40
QY      145 CCCAATGTCGCAAGATGAACACATCTAATTCACAAATAAAGGACATGGTGACCCAGGCA 204
Db      41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY      205 TCTCTGATCTCTTGAAGCTACAGGAAGCGATTTTATTTTCAAAAATGTTGCCATTG 264
Db      61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY      265 ATTCCTGAAACATGGAACACAAAGGCTGACTATGTGAGACCAAAACTTGAGACCTTACAAA 324
Db      81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY      325 AATGCTGATGTTCTGGTTGCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
Db      101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY      385 CAGATGGCAACTGTGGAGAGAAGGTGAAGGATCCACCTCATCTCTGATTTCAATGCA 444
Db      121 GlnMetGlyAsnCysGlyGlyGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY      445 GGAATAAGTTAGCTGAATATGACCAACAAGTAGGGCATTTGTCCATGAGTGGGCTCAT 504
Db      141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160
QY      505 CTACGATGGGAGATTGTCAGAGTACAATGATGAGAAATTTCTACTTATCCAATGGA 564
Db      161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY      565 AGAATAACAGCAGTAAGATGTTACAGCAGGTATTACTGTCACAAATGTAGTAAAGAGTGT 624
Db      181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY      625 CAGGAGGCGAGCTGTTTACACCAAAAGATGACATTCATTAAGTAAAGTAAAGGACTTATCAA 684
Db      201 GlnGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY      685 AAAGGATGTCAGTTGTTCTCCAAATCCGCCAGACGAGAGGGTCTTATAATGTTTGA 744
Db      221 LysGlyCysGluPheValLeuLeuSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY      745 CAACATGTTGATCTATAGTTGAATTCGTACAGCAACAAACCAACCAACAGAGTCCCA 804
Db      241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY      805 AACAGCAAAATCAAAATGCAATCTCCGAGCACATGGGAAGTATGATTCGATTCGAG 864
Db      261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280

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QY 865 GACCTTAAAGAAACACCTCTATATGACACACAGCCACCAATCCACCTTCTCATCTGCTG 924  
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QY 925 CAGATTGGACAAAGAAATGTGTGTAGTCCTTGACAAATCTGGAAGCATGGCGACTGGT 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCCTCAATPCGACTGAATCAACAGCGCCAGCTTTTCTGCTCGACAGACTTGAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTGGTGGATGGTGCATTTGACATTTGACAGTGTGCTGCCATGTCAAAAGTGAATCAT 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY 1165 GGAGGAGCTCCATCTGCAGCGGGCTTGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCAACTGATGGATCTCAAAATGTGCTGTGACGGATGGGAAGACACACTATAAGTGGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCTTTAAAGAGTCAAAAGTGTGCTCATCATCCACACAGTGGCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAATATGACAGGAGGTTTACAGACATATGCTTCA 1404  
Db 441 AlaAlaGlnLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTCAGAAACATGGCCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGA 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACTCCAGAACAGCCAG 1524  
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATCAATGGCACAGTGTCTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATC 1584  
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY 1585 ACCTGCACACGCGCTCCCAATCTCTCTGGGATCCAGTGGACAGAGCAAGT 1644  
Db 521 ThrTrpThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GCGTTTGTAGTGACAAAACACCAAAATGGCTACTCTCAATCCAGGCATTTGCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTGTCAGC 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGTGGCTCCAAATGCTACCTGCTCCATTAAGTACTGCTCAAAACAGCAAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAATTCGCCAGCCTCTGTGTAGTTTATGCAATATTCGCAAGAGCCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATTCAGTGAATGGAAGAAACAGTTACTCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640

QY 1945 GAACTACTGGATAATGGACAGGTGCTGATCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
Db 641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCAACACTTATGACACGAATGGTAGATACAGTGTAAAGTCTGGGCTCTGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAAGCAGCAGCAGGAGAGTATACCCACAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAAGATGATGAATACATGAATCCACCAAGACCTGAAATTAATAAGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACAACAAGTGTGTTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGTCTCCATACCTGATCTCTCCACCTGGCCAAATCACCAGCCTGAAG 2304  
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QY 2305 GCGGAAATTCACGGGGCAGTCTTAATCTGACTTGCACAGCTCTCTGGGATGATTAT 2364  
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QY 2365 GACCATGGAACAGCTCACAAAGTATATCATTCGAATAGTACAAATATTCTTCTGATCTCAGA 2424  
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QY 2425 GACAAGTTCATGAATCTCTCAAGTGAATACTACTCTCTCATCCCAAGAACCCAC 2484  
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QY 2545 TTCATTGTCTTTCAGCGCTGTGATAAGGTTCGATCTGAAATCAGAAATATCCAACTTGA 2604  
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Db 861 ArgValSerLeuPheIleProProGlnThrProGluThrProSerProAspGluThr 880  
QY 2665 TCTGTCTCTGTCTTAATATTCATATCAACAGCACCATTCCTGGCATTCACATTTTAAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAAGTGGATGAGGAAGTGCAGCTGTCTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 9

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066

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i   LENGTH: 914
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
Pred. No.:      0      Length:      914
Score:          4756.00 Matches:      913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.89% Mismatches: 0
Query Match:      88.40% Indels:      0
DB:               9      Gaps:        0

US-09-049-696-20 (1-2903) x US-09-833-263-1066 (1-914)

QY 25 ATGGGGCCATTAAAGATCTCTGTTCATCTTCACTTCTCAGCCCTTCTAGAGGGGCCCTG 84
Db 1 MetGlyProPheLysSerValPheIleLeuHisLeuLeuGluGlyAlaLeu 20

QY 85 AGTAATTCATCTCATTGAGTGAACAAACAATGGCTATGAAGGCATTCTGCTTGCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGCGCAGAGATGAACACTCATCTCAACAATAAAGACATGCTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCCTGAAACATGAAGACAAAGGCTGACTATGTGAGACCAAAACTTCAGAGCCCTACAAA 324
Db 81 IleProGluThrTyrLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATGTTCTGTTCTGAGTCTACTCTCTCCAGGTAATGATGAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGGCAACTGTGGAGAGAGGTGAAGATCCACTCCTCCTGATTCATTGCA 444
Db 121 GlnMetGlyAsnGlyGlyGlyGlyGlyGluArgIleHisLeuThrProAspPheIleAla 140

QY 445 GGAAAAAGTTAGCTGAATATGACACCAAGGTAGGGCATTGTCTCATGAGTGGGTCTAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTyrAlaHis 160

QY 505 CTACGATGGGGATTTTGACCGAGTACATAATGATGAGAAATTCCTATTATCCAAATGGA 564
Db 161 LeuArgTyrGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

QY 565 AGAATACAGCAGTAAGATGTTCCAGCGTATTTACTGTGACAAATGCTAGTAAGAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200

QY 625 CAGGAGGCGAGCTGTATACACCAAAAGATGCACATTCATAAAGTAACAGACTCTATGAA 684
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220

QY 685 AAAGATGTGAGTTGTTCTCAATCCCGCCAGACGGAGAGGCTTCATATAGTTTGA 744
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240

QY 745 CAACATGTGATTCTATAGTTGAATCTGTACAGAACCAAAACCAACAAAGAACTCCA 804
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260

QY 805 AACAGCAAAATCAAAAATGCAATCTCCGAGCACATGGGAAGTATCGGTGATTCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTyrGluValIleArgAspSerGlu 280

QY 865 GACTTTTAAAGAAACCACTTCTATGACACACAGCCCAACCAATCCACCTTCTCATGCTG 924
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660

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Db 281 AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300
QY 925 CAGATTGGACAAAGAATTGTGTCTTTAGTCTCTTGCACAAATCTGGAAGCATGGCGACTGGT 984
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACCGCTCAANTCGACTGAATCAAGCAGGCCAGCTTTTCTCTGCTGCAGACAGTTGAGCTG 1044
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
QY 1045 GGGTCTCTGGTGGTGGATGCTGACATTTGACAGTGTGCCCTCATGACAAAAGTGAACTCATA 1104
Db 341 GlySerTyrValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAACAGTGGCAGTGCACAGGGACACACTCGCCAAAGATTACTCTGAGCAGCTTCA 1164
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380
QY 1165 GGAGGAGCCTCCATCTGCAGCGGCTTCGATCGGCATTTTACTGCTGATTAGGAGAAATAT 1224
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysTyr 400
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QY 1285 TGCATTTAACGAGCTCAAAAGTGGTGCATCATCCACACAGTCCCTTTGGGGCCCTCT 1344
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer 440
QY 1345 CGAGCTCAAGAACTAGAGGAGCTGCCAAAANTCAGAGGAGTTTACAGACATATGCTTCA 1404
Db 441 AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460
QY 1405 GATCAAGTTTCAGAACAAATGGCCCTCATTCATGCTTTTGGGGCCCTTTCATCAGAAATGA 1464
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QY 1465 GCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACCCAG 1524
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500
QY 1525 TCGATGAATGGCACAGTGTATCGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATC 1584
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520
QY 1585 ACCTGGACAAACGACGCTCCCCAAATTCCTCTCTGGGATCCCGATCCAGTGGACAGAACG 1644
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QY 1645 GGCTTTGTAGTGACAAAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAG 1704
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QY 1705 GTTGCCACTTGGAAATACAGTCTGCAAGCAGCTCACAACCTCACAACCTCAGCTGCTCAG 1764
Db 561 ValGlyThrTyrLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580
QY 1765 TCCCGTGGTCCCAATGCTACCTCCCTCCCAATTCAGTGACTTCCAAACCAAGAACAGGAC 1824
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QY 1945 GAATCTGATTAATGGAGCAGGCTGCTGATGCTACTAAGGATGACGGTGTCTTACTCAAGG 2004
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660

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QY	2005	TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTCGGGCTCTGGGAGGA	2064
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QY	2065	GTTTAACGACCCAGACGGAGGAGTATACCCACGACGAGTGCAGACACTGTACATACCTGGC	2124
Db	681	ValAsnAlaIaArgArgValIleProGlnGlnSerGlyAlaLeuTyIleProGly	700
QY	2125	TGGATTGAGAATGATGAAATACAAATGCAATCCACCAAGACTGAAATTAATTAAGGATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	2185	GTTCAACACAAAGCAAGTGTGTTTCAGCAGACAATCCTCGGAGGCTCATTTGTGGCTTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	2245	GATGTCCCAATGCTCCCATACCTGATCTCTTCCACGTCGTGCCAAATACACGACCTGAAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	2305	GCGCAAAATTCACGGGGCAGTCTCTAATACTGACTTTGGACAGCTCCTGGGGATGATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
QY	2365	GACCATCGAACAGCTCCAAGTATATCATTCGAATAAGTACAAGTATTCTTGATCTCAGA	2424
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QY	2425	GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCAAC	2484
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QY	2485	TCGTGAGGAAGTCTTTTGTGTTTAAACGAGAAACAATTACTTTGAAATGGCAGACATCTT	2544
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QY	2545	TTCAATTCCTATTACGGCTGTGTGATAAGTCGATCTGAAATCAGAAATATCCAATTCGA	2604
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QY	2605	CGAGTATCTTTGTTTATTCTCCACAGACTCCGCGACAGACACCTAGTCTGTGATGAAACG	2664
Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
QY	2665	TCTGCTCCTTGTCTCTAATATTATATCAACAGCACCATTCTGTGCATTCACATTTTAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	2725	ATTATGTGGAAGTGGATAGAGAACTCGAGCTGTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

RESULT 10

US-10-025-380-1066	
Sequence 1066, Application US/10025380	
Publication No. US20020182191A1	
GENERAL INFORMATION:	
APPLICANT: Xu, Jiangchun	
APPLICANT: Xu, Jiangchun	
APPLICANT: Lodes, Michael J.	
APPLICANT: Secrist, Heather	
APPLICANT: Benson, Darin R.	
APPLICANT: Meagher, Madeleine Joy	
APPLICANT: Stolk, John A.	
APPLICANT: Wang, Tongtong	
APPLICANT: Jiang, Yugu	
APPLICANT: Smith, Carole L.	
APPLICANT: King, Gordon E.	
APPLICANT: Wang, Aijun	
APPLICANT: Clapper, Jonathan D.	
APPLICANT: Skeiky, Yasir A. W.	
APPLICANT: Fanger, Gary R.	
APPLICANT: Vedvick Thomas S.	

141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis	160
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505	CTACGATGGGAGTATTGTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGGA	564
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161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
161		
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181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
181		
625	CAGGGAGCGAGCTGTTACACCAAAGATGCACATTCATATAAAGTAAACAGGACTCTTATGAA	684
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201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220
201		
685	AAAGGATGTGAGTTGTTCTCCAAATCCGGCCAGACGAGAGCGCTTCTATATGTTGCA	744
685		
221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
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745		







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; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623, 624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; TYPE: PRT
; LENGTH: 914
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4754.00 Matches: 913
Percent Similarity: 99.89% Conservative: 0
Best Local Similarity: 99.89% Mismatches: 1
Query Match: 88.36% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-270-595-6 (1-914)
QY 25 ATGGGGCCATTAAAGAGTCTGTGTTCACTTCGATTCCTACCTTCTAGAGGGGCCCTG 84
DB 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATCTACTCATTCAGCTGACACAAATGGCTATGAAAGCAATTCCTGTCGAATCGAC 144
DB 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyValValAlaIleAsp 40
QY 145 CCCAATGTGCGAGAGATGAACACTCAITCAACAATAAAGACATGGTGACCCAGGCA 204
DB 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTATTTCAAAATGTGCAATTTTC 264
DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTGGAACATGGAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTCAAA 324
DB 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGTGATGTTCTGCTGAGTCTACTCCFCCAGGTAATGATGAACCCCTACCTGAG 384
DB 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGCAACTGTGAGAGAGGGTGAAGGATCCACTCACTCCTGATTTCAATGCA 444
DB 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGTCTAGCTGAATATGACACCAAGGTAGGGCAATTTGTCATGAGTGGGCTCAT 504
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QY 505 CTACGATGGGAGTATTGACGAGTACAAATAATGATGAGAAATTCCTACTTCAATGGA 564

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161 LeuArgTirpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
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DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
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DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
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DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
QY 1345 GCAGCTCAGAACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCA 1404
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DB 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480
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Db 521 ThrTIPThrThrGlnProGlnIleLeuLeuTIPAspProSerGlyGlnLysGlnGly 540  
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QY 2005 TATTTCACTATGACAGCAAGTGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA 2064  
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QY 2065 GTTAAAGCAGCCAGAGAGAGTATACCCAGCAGAGTGGAGTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnLysSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGAATGATGAAATACAAATGAAATCCCAAGACCTGAAATTAATAGGATGAT 2184  
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Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCTCCAAATGCTCCCATACCTGATCTCTCCACCTCGCCAAATCACCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAATTCACGGGCGCATCTCAATTAATCTGACTGGACAGCTCTGGGGATGATTAT 2364  
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Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCATTGCTATTCCAGGCTGTGTATAGTTCGATCGAATCAGAAATATCCACATTGCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
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Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
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Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900

QY 2725 ATTATCTGAAGTGGATAGGAGAACTGCAGCTCTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 12

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 88.35% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-055-412B-28 (1-914)

QY 25 ATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTCACTTTCACCTTCTAGAGGGGCCCTG 84  
Db 1 MetGlyProPheLysSerValPheIleLeuIleHisLeuLeuGluGlyAlaLeu 20  
QY 85 AGTAATTCATCTATTTCAGCTGAACAAATGGCTATGAAGGCAATTCGTTGCAATCGAC 144  
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40  
QY 145 CCCAATGTCCGAAAGATGAACACTCATTCACAATAAAGACATGGTGACCCAGGCA 204  
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60  
QY 205 TCTCTGTATCTGTTTCAAGCTACAGGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264  
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80  
QY 265 ATTCTCGAAACATGGAAGCAAGAGCTGACTATGTGAGACCAAAACTTGAGACCTACAAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100  
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
QY 385 CAGATCGCAACTGTCTGAGAGAGGCTGAAAGGATCCACTCACTCTGATTTTCATTGCA 444  
Db 121 GlnMetGlyAsnCysGlyGlnLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAAGAAAGTTAGCTGAATATGACCAAGGATAGGCGCATTTTCCATGAGTGGGCTCAT 504  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluThrAlaHis 160  
QY 505 CTACGATGGGAGTATTTCACGAGTACAAATATGATGAGNAATTTCTACTTATCCAATGGA 564  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

565 AGAATACAGCAGTAAAGATGTTTCAGCAGGTATTACTGGTACAAATGTAGTAAAGAGTGT 624  
Db |||||  
181 ArgIleGlnAlaValAlaValArgCysSerAlaGlyIleThrGlyThrAsnValVallyIlySlyCys 200  
QY CAGGGAGGAGCTGTTTACACCAAAAGATGCACATTCAATAAAGTAAACAGGACTCTATGAA 694  
Db |||||  
201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
QY AAAGGATGTGAGTTGTTCTCCAAATCCCGGCACACGAGAGAGCTTCTATATGTTTGA 744  
Db |||||  
221 LysGlyCysGlnPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY CAACATGTTGATCTATAGTTGAATCTGTACAGAACAAACACACAAAGAGAGCTCCA 804  
Db |||||  
241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY AACAAACAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATCTGAG 864  
Db |||||  
261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY GACTTTAAGAAACCACTCTATGACACACACAGCCACCAATCCACCTTCTCATTTGCTG 924  
Db |||||  
281 AspPheLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY CAGATTGGACAAAGAAATGTTGTTAGTCTTGACAAATCTCGAAGCATGGCGACTGGT 984  
Db |||||  
301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY AACCGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTCTCTGCTGCAGACAGTTGAGCTG 1044  
Db |||||  
321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY GGGTCTCGGGTGGGATGGATGGATTTGACAGTGTGCCCATGTACAAAGTGAACCTATA 1104  
Db |||||  
341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY CAGATAAACAGTGGCAGTACAGGGACACACTCGCCAAAGATTACTCGCAGCAGCTTCA 1164  
Db |||||  
361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLaser 380  
QY GGAGGACGTCCATCTCGACGGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAATAT 1224  
Db |||||  
381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY CCNACTGATGATCTGAATTTGCTGTGACGGATGGGGAAGACAACTATAAGTGGG 1284  
Db |||||  
401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY TGTCTTAAACGAGTCAAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCT 1344  
Db |||||  
421 CysPheAsnGluVallyGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY GCAGTCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA 1404  
Db |||||  
441 AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY GATCAGTTACAGAAATGGCCTCATTTGCTTTTGGGGCCCTTTTCATCAGGAATGGA 1464  
Db |||||  
461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTGAAGGATTAACCTCCAGAACACCCAG 1524  
Db |||||  
481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY TGGATGAATGGCAGTGTGTCGAGCAGCCGTCGGGAAGGACACTTTGTTTCTTATC 1584  
Db |||||  
501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY ACCTGACAAACGAGCGCTCCCAAAATCTCTCTGGGATCCCGAGTGGACAGAAAGCAAGT 1644  
Db |||||  
521 ThrTrpThrThrGlnProGlnIleLeuLeuThrTrpAspProSerGlyGlnLysGlnGly 540  
QY GGCTTTGTAGTGACAAAAACCAAAATGGCCCTACTCTCAAAATCCAGGCATTGCTAAG 1704

541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGGACCTGACTGTCAAG 1764  
Db |||||  
561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY TCCCGTGGCTCCAAATGCTACCTGCTCCCAATTACAGTACTTCCAAAACGACCAAGGAC 1824  
Db |||||  
581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY ACCAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCCGCAAGGAGCTCCCCA 1884  
Db |||||  
601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY ATTCTCAGGGCCAGTCTCAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACTCTTG 1944  
Db |||||  
621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY GAACTACTCGATAATGAGCAGGTGCTGATCTACTAAGATGACGGTGTCTACTCAAGG 2004  
Db |||||  
641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY TATTTCACAACTTATGACACGAATGCTAGATACAGTGATAAGTGGCGCTCTGGGAGGA 2064  
Db |||||  
661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY GTTAAACGACGAGCAGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db |||||  
681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY TGGATTGCAATGATCAAAATACAAATGGAATCCACCAAGACCTGAAATTAATAGATGAT 2184  
Db |||||  
701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY GTTCAACACAAAGCAAGTGTTCAGCAAAACATCTCGGGAGGCTCATTGGGGCTTCT 2244  
Db |||||  
721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY GATGTCCCAAAATGCTCCCATACCTGATCTTCCCACTGGCCAAATACCCAGCCTGAAG 2304  
Db |||||  
741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
QY GCGGAAATTCAGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGAGTATTAT 2364  
Db |||||  
761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY GACCATGGAACAGCTCACAAAGTATATCATTCGAATAAGTACAGATTCTTGTATCTCAGA 2424  
Db |||||  
781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY GACAAATTCAAATCAATCTCTCAAGTGAATACTACTGTCTCTCATCCCAAGGAAGCCAAC 2484  
Db |||||  
801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY TCTGAGGAAGTCTTTTGTGTTAAACAGAAAACATTACTTTTGAAAATGGCACAGATCTT 2544  
Db |||||  
821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY TTTCAATTCATTCAGCTGTTGATAAGTTCGATCTGAAATCAGAAATATCCCAACTTGA 2604  
Db |||||  
841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY CGAGTATCTTTTCTTTTATCTCCACAGACTCCGCCAGACACACTAGTCTCTGATGAAACG 2664  
Db |||||  
861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880  
QY TCTGCTCTCTGCTCTTAATTCATATCAACAGACACATTCCTGGCATTCACATTTTAAA 2724  
Db |||||  
881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY ATTATCTGCAAGTGTAGGAGAACTGCAGCTGTCAATAGCC 2766

Db 901 IleMetTrpIysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 13

US-10-369-214-133

; Sequence 133, Application US/10369214

; Publication No. US20030232037A1

; GENERAL INFORMATION:

; APPLICANT: Groot, Pieter C.

; APPLICANT: Berghenhegouwen van, Bram J.

; APPLICANT: Oosterhout van, Antoon J.M.

; TITLE OF INVENTION: Genes involved in immune related responses observed

; TITLE OF INVENTION: with asthma

; FILE REFERENCE: P53837US00

; CURRENT APPLICATION NUMBER: US/10/369, 214

; CURRENT FILING DATE: 2003-02-15

; PRIOR APPLICATION NUMBER: EP 00202867.8

; PRIOR FILING DATE: 2000-08-16

; PRIOR APPLICATION NUMBER: PCT/NL01/00610

; PRIOR FILING DATE: 2001-08-16

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 133

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: SITE

; LOCATION: (1)..(914)

; OTHER INFORMATION: /note="Human CLCAl"

US-10-369-214-133

Alignment Scores:

Pred. No.: 0 Length: 914

Score: 4751.00 Matches: 912

Percent Similarity: 99.89% Conservative: 1

Best Local Similarity: 99.78% Mismatches: 0

Query Match: 88.31% Indels: 0

DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-369-214-133 (1-914)

QY 25 ATGGGGCCATTTAAGAGTCTTGTTTCATCTTGCATCTTCCACCTTCTAGAGGGGGCCCTG 84

Db 1 MetGlyProPheIysSerValPheIleLeuIleHisLeuGluGlyAlaLeu 20

QY 85 AGTAATTCATCTTTCAGCTGAACAATGGCTGTGAGGCAATGTCGTTGCAATCGAC 144

Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGTGCCAAGACGAAACACTCATTCAACAAATAAAGGACATGGTGACCCAGGCA 204

Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264

Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCTCTGAACATGGAGACAAGGCTGACTATGTGAGACCAAAACTTGAGACTACAAA 324

Db 81 IleProGluThrTrpIysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATCTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTACACTGAG 384

Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGCAACTGTGGAGAGAAGGTGAAGGATCCACTCTACTCTGATTTTCATTGCA 444

Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140

QY 445 GGAATAAAGTACTGTAATGACACAGGTAGGCAATTTCTCCATGATGGGCTCAT 504

Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160

QY 505 CTACGATGGGAGTATTTTACGAGTAGTACAAATAATGATGAGAAATCTACTTATCCAATGGA 564

Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

QY 565 AGAATACAAGCAGTAGAATGTTTACGACAGGTATTACTGGTACAAATGTAGTAAAGAAGTGT 624

Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysCys 200

QY 625 CAGGAGGAGCGTGTGTACACCAAAAGATGCACATTCATAAAGTACAGAGCTCTATGAA 684

Db 201 GlnGlyCysCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220

QY 685 AAAGGATGTGAGTTTCTTCAATCCCGCCACGAGGAGAGGCTTCTATAATGTTTTCGA 744

Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240

QY 745 CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGCTCCA 804

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QY 865 GACTTTAAGAAAACCACTCTCTATGACACACACGCCACCAATCCCACTTCTCATGTCTG 924

Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300

QY 925 CAGATTGGACAAAGAATTGTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGGCGACTGGT 984

Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320

QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCCACTTTTCTGCTGCAGACAGTGTAGCTG 1044

Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340

QY 1045 GGGTCTCTGGGATGGTGACATTTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATA 1104

Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360

QY 1105 CAGATAAACAGTGGCAGTCAAGGACACACTCGCCAAAGATTACTCTGCAGCAGCTTCA 1164

Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380

QY 1165 GAGGAGCAGCTCCATCTGCAGCGGCTTCGATCGCATTTTACTCTGTAGTAGAGAAATAT 1224

Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400

QY 1225 CCAACTGATGGATCTCAAAATTTGTGCTGACGGATGGGGAAGAACACATATAAGTGGG 1284

Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420

QY 1285 TGTCTTAAACGAGTCAAAAGTGTGTGCCATCATCCACACAGTCCGCTTTGGGGCCCTCT 1344

Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440

QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATACAGAGGTTTACAGACATATGCTTCA 1404

Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460

QY 1405 GATCAAGTTTCAGAAACAATGGCTCTATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGA 1464

Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480

QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAAGGATTAACCTCCAGAACACGCCAG 1524

Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500

QY 1525 TGGATCAATGGCACAGTGTGAGGACACCGCTGGGAAAGGACACTTGTTCCTTATC 1584

Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520

QY 1585 ACCTGACAAACGACGCTCCCAAAATCTTCTCTGGGATCCCAAGTGGAGACAGCAAGGT 1644

Db 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GCCTTTGAGTCGACAAACACCAAAATGGCTTACCTCCAAATCCAGGCATTCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTCACCTGACTCTCAGG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
QY 1765 TCCCGTGGTCCAATGCTACCTGCTCCAAATACAGTCACTTCCAAACCAACCAAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCACAAATCCCCAGCCCTCTGCTAGTTATGCAATATTCGCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTCCAGCCCTGATTGAATCAGTGAATGGAAACACAGTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAATCTGGATATGAGAGCGGTCTGATCTACTAAGGATGACGGTGTCTACTCAAAG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACACTATGACACCAATGGTAGATACAGTGTAAAGTCGGGCTCTCGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAACGACGACGAGAGAGTATACCCAGCAGAGTGGAGCAGCTGATACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATGAATACATGAATCCCAACACCTGAAATTAATAAGGATCAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAGCAAGTGTTTCAGCAGACATCTCTCGGAGGCTATTGTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGCTCCACTACTGATCTCTCCACTGCGCAAAATCACCGACTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuAsn 760  
QY 2305 CGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAAACAGCTCACAGTATATCATTCGTAATAGTACAGTATTCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGGCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAGTCTTTTGTGTTAAACGAGAAAACATTACTTTTGAAAATGSCACAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCATTGCTATTTCAGGCTGTGATAGGTGATCTGAATATCAAAATATCCAACTTGA 2604  
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QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAACG 2664  
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
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Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
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RESULT 14  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA00591  
; CURRENT APPLICATION NUMBER: US/10106,698  
; CURRENT FILING DATE: 2002-03-27  
; PCT FILING DATE: 2002-03-27  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

## Alignment Scores:

Pred. No.: 0 Length: 869  
Score: 4476.00 Matches: 858  
Percent Similarity: 99.65% Conservative: 1  
Best Local Similarity: 99.54% Mismatches: 3  
Query Match: 83.20% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-106-698-6388 (1-869)

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Db 8 IleArgHisGluValThr\*\*\*AlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe 27  
QY 241 TATTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGACAAAGGCTGACTATGTG 300  
Db 28 TyrPheLysAsnValAlaIleLeuIleProGluThrTriplysThrLysAlaAspTyrVal 47  
QY 301 AGACCAAACTTGCAGACCTACAAATGCTGATGTTCTGTTGCTGCTGAGTCTACTCTCCA 360  
Db 48 ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro 67  
QY 361 GGTAAATGTAACCCCTACACTGAGCAGATGGCACTGTGGAGAGAGGTGAAAGATC 420  
Db 68 GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle 87  
QY 421 CACCTCACCTCTGATTTTCAATGAGGAAAAAGTTAGCTGAATATCGACCACCAAGTAGG 480  
Db 88 HisLeuThrProAspPheIleAlaGlyLysLysLeuAlaGluTyrGlyProGlnGlyArg 107  
QY 481 GCATTGTCCATGAGTGGGCTCATCTACGATGGGAGTATTTTCAGAGTACATAATGAT 540  
Db 108 AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrAsnAsp 127  
QY 541 GAGAAATTTCTACTTATCCAAATGGAAGATACAAAGCAGTAAAGATGTTTCAGCAGGTATTACT 600  
Db 128 GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr 147  
QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGCGACGTGTACACCAAAAGATGCACATTC 660

148 GlyThrAsnValValLysLysCysGlnGlySerCysThrLysArgCysThrPhe 167  
661 AATAAAGTACAGACTCTATGAAAAAGGATGAGTGTTCCTCCAAATCCGCCAGAGC 720  
168 AsnLysValThrGlyLeuThrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr 187  
721 GAGAAGCTTCTATAATGTTTGACAAACATGTTGATCTATAGTTGAATCTGTACAGAA 780  
188 GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu 207  
781 CAAACCAACAAAGAGCTCCAAACCAAGCAAAATCAAAATGCAATCTCCGAAGCACA 840  
208 GlnAsnHisLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr 227  
841 TGGGAAGTGAATCCGTGATCTTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGCCA 900  
228 TrpGluValIleArgAspSerGluAspPheLysLysThrProMetThrThrGlnPro 247  
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248 ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp 267  
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268 LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu 287  
1021 TTCCTGCTGCAGACAGTTGAGTGGGTCTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 1080  
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308 AlaHisValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla 327  
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1321 CACACAGTCGTTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1380  
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1681 CTCCAAATCCAGGAGTCTAAGGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740

508 LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTySerLeuGlnAlaSerSer 527  
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528 GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr 547  
1801 GTCACTTCCAAAACGAACAGACACAGCAAAATCCCAAGCCCTCTGGTAGTTTATGCA 1860  
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688 SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro 707  
2281 CCTGCGCAATCACCGACTGAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT 2340  
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RESULT 15

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US-10-270-595-2
; Sequence 2, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-270-595-2

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Alignment Scores:

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Percent Similarity:	86.99%	Conservative:	102
Best Local Similarity:	75.85%	Mismatches:	112
Query Match:	67.96%	Indels:	7
DB:	14	Gaps:	4

US-09-049-696-20 (1-2983) x US-10-270-595-2 (1-913)

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QY	81	IleProGluSerTrpLysAlaLysProGluTyrThrArgProLysLeuGluThrPheLys	100
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